THE IMPLEMENTATION OF RECOMMENDED PRACTICES AND SCHOOL CLIMATE IN OKLAHOMA MIDDLE SCHOOLS

Вy

DOUGLAS DWAIN THOMAS

Bachelor of Arts Southeastern Oklahoma State University Durant, Oklahoma 1979

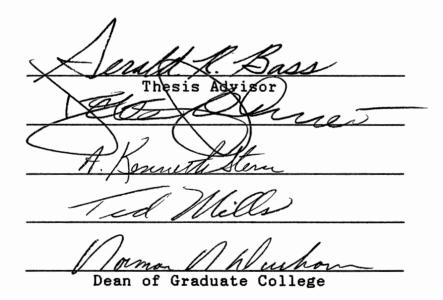
> Master of Science Oklahoma State University Stillwater, Oklahoma 1982

Submitted to the Faculty of the Graduate College of the Oklahoma State University in partial fulfillment of the requirements for the Degree of DOCTOR OF EDUCATION May, 1991

199110 T4551 2009.2

THE IMPLEMENTATION OF RECOMMENDED PRACTICES AND SCHOOL CLIMATE IN OKLAHOMA MIDDLE SCHOOLS

Thesis Approved:



ACKNOWLEDGMENTS

I wish to express my sincere appreciation to the entire faculty of the Educational Administration and Higher Education Department of Oklahoma State University for their contributions to my professional knowledge and personal growth during the many years I have been associated with the department. My coursework and degree activities have proven to be most rewarding.

I would like to express my sincere gratitude to my dissertation advisor, Dr. Gerald Bass, for his devotion of time and energy toward completion of this dissertation. His ever-present optimism, pleasant disposition and unending patience kept our project on track and moving toward a successful ending. A special thanks also goes to my committee members, Dr. Ken Stern, Dr. Deke Johnson, and Dr. Ted Mills, for their time and suggestions during this dissertation process.

Next, I would like to thank all my family, friends, and colleagues who supported me along the way. My family's understanding and assistance helped me thoughout my doctoral program. My close friends Ronnie, Linda, Larry, and Sharon were always there for needed camaraderie and as surrogate parents. I need to mention, in particular, Dr. Charles Clayton and Mr. Max Caldwell for their confidence in

iii

me and the encouragement they provided during the years we worked together. I extend sincere thanks to all of them.

To my wife, Lisa, and my two children, Jana and Jeffrey, words cannot express the love and admiration I need to send to you for the patience you have shown and the sacrifices you have made while I was completing this degree. I only hope that I can make you the beneficiaries of this educational endeavor as much as I have benefited from your love and understanding. Thank you all very, very much.

TABLE OF CONTENTS

Chapter		Page
I. INT	RODUCTION	. 1
	Statement of the ProblemPurpose of the StudySignificanceLimitationsDefinitionsSummary	10
II. REV	IEW OF LITERATURE	15
	The Middle School Student	35 51
III. METH	HODS AND DESIGN	62
	Population and Sample	64
IV. FIN	DINGS OF THE STUDY	70
ł	Descriptive Information	. 83 . 87 . 92
	MARY, CONCLUSIONS, RECOMMENDATIONS COMMENTARY	. 97
	Summary	97 100 100 101 101

.

LIST OF TABLES

-

Table		P	age
I.	Summary of Significant Correlational Coefficients in Crowder's 1982 Study	•	58
II.	Grade Organizations of Oklahoma Middle Schools	•	71
III.	Distribution of Respondent Middle Schools by District Size and Average Enrollment	•	72
IV.	Enrollment and Staffing of Respondent Middle Schools	•	73
Ϋ.	Current Level of Implementation of 18 Middle School Practices in Oklahoma		76
VI.	Comparison of Current <u>MSPI</u> Mean Percentage Scores With Those From Earlier Oklahoma Studies		84
VII.	Comparison of the <u>MSPI</u> Scores for the High and Low Implementation Level Schools	•	88
VIII.	Comparison of Teachers' Perceptions of School Climate for Low and High <u>MSPI</u> Implementation Level Schools	•	91
IX.	Summary of Significant Relationships Between Middle School Practices and School Climate Indicators	•	93
	LIST OF FIGURES		
Figure		Pa	age

1. Group Profiles of School Climate Indicators . . . 90

CHAPTER I

INTRODUCTION

Throughout this century, educators have not agreed in theory or in practice upon what type of grade organization would best serve the needs of students between the ages of 11 and 14. At present there is still no clear answer to this lingering question. The variety of different grade organization schemes found in our public school systems emphasizes the difference of opinions concerning middle level education.

Prior to the reorganization of public education during the early years of the 20th century, the most common organizational structure of public schools was an "8-4" pattern, representing an eight-year elementary school and a four-year high school (Brimm, 1969). However, from 1892 to 1918, a series of national committees proposed drastic changes to the organizational make-up of the public schools across the nation. Those committees favored a "6-6" plan with grades seven and eight becoming part of the secondary school (Calhound, 1983). In 1918, the National Education Association's Commission on the Reorganization of Secondary Education generally supported the 6-6 system, but with the secondary school further separated into specific junior and

senior divisions (Klingele, 1979; Alexander, 1988). According to Alexander and George (1981), this report gave great impetus to the already established junior high school movement and the "6-3-3" organizational structure.

The first junior high school was started in 1895, but the idea did not catch on until 1910 when the Berkeley, California, and Columbus, Ohio, school districts established junior high schools (Toepfer, 1962). The junior high school concept was widely accepted across the country and the number of junior high schools increased steadily for the next 60 years. By 1920, there were 385 junior high schools and in 1970 there were over 6,000 (Alexander, 1971).

There were several reasons for the wide acceptance of the junior high school concept within the American educational system. From its beginnings, the junior high was assigned a variety of purposes. In 1918, Inglis described four major purposes of the junior high school: (1) to provide a gradual transition from elementary to high school, (2) to adapt the school to the individual pupil's needs, (3) to enhance vocational education for those not continuing to high school, and (4) to reorganize teaching materials and methods to reflect the needs of the pupils with reference to their life after school (Calhound, 1983).

Several studies conducted in the 1950s and 1960s confirmed that indeed many junior high schools were established for educational reasons such as those mentioned above (Toepfer, 1962; Lavenburg, 1963; Hence, 1967).

However, it was apparent to some authorities (i.e., Lentz, 1956; Alexander & Kealy, 1969; Brimm, 1969) that a primary force in the steady increase in the number of junior high schools was the overcrowded conditions caused by the post-World War I population boom and the lack of existing facilities to accommodate those students. Regardless of the underlying reasons for its implementation, the junior high concept was widely accepted as a progressive idea of benefit to the early adolescent student.

By the decade of the 1960s, however, many educators were beginning to be critical of the junior high school and were proposing new organizational structures which could more adequately serve the unique needs of early adolescent students. One of the primary objections to the junior high school concept was that it had "generally become a school more like the high school, better geared to the teenager than the in-between-ager" (Alexander et al., 1969, p. v). The junior high school emphasized a subject-oriented approach to education which, according to Stewart (1975), failed in its mission to provide for an education suited to the age group.

The middle school movement emerged from this criticism of the organizational structure and instructional program of the junior high school. The middle school idea provided alternatives to those characteristics of the junior high school which many educators perceived to be inappropriate for early adolescents. These areas of concern included a

subject-centered curriculum, traditional teaching styles, graduation units, and sophisticated social activities (Moss, 1969).

The new school structure proposed for the middle school also addressed several positive reasons for improving the education of early adolescent students. Moss (1969) identified five reasons for the establishment of a middle school.

- 1. Because of the earlier onset of puberty, 6th graders may be better served in a middle school of grades 6, 7 and 8.
- Greater curriculum experimentation may be undertaken, because the middle school will not be bound by college entrance requirements. The school may focus on the needs of 11-14-year-olds and become `a school for growing up.'
- 3. Ideally, middle school certification will be developed which will result in teachers trained especially to work with this age group.
- 4. A nongraded structure may be developed which will more effectively ease the transition from elementary school to middle school.
- 5. Educational guidance may be emphasized (pp. 18-19).

Calhound (1983) offered the following description of a middle school, according to his interpretation of the views of the major middle school advocates. A middle school would include:

A grade pattern that begins with either the 5th or 6th grade and ends with the 8th grade. An educational philosophy that emphasizes the need and interests of the students.

A willing attitude on the part of the staff toward instructional experimentation, open classrooms, team teaching, utilization of multimedia teaching techniques, and student grouping by talent and interest, rather than age alone. An emphasis on individual instruction and guidance for each pupil.

A focus on educating the whole child, not just the intellect. A program to help ease the transition between

childhood and adolescence (p. 88).

The middle school philosophy was one of "humanizing education" for the early adolescent (Overly, 1972). As opposed to the subject-centered curriculum of the junior high school, the middle school curriculum was studentcentered.

The middle school which features an educational program predicated on each individual student's characteristics, interests, and objectives is in a good position to be of value to the early adolescent (Stewart, 1975, p. 23).

The middle school was described by Grooms (1967, p. 158) as "a school of change," while Lounsbury and Vars (1971, p. 19) considered it to be a "new opportunity, a new rallying point, a fresh start."

This philosophy, and the new organizational structure which accompanied it, was widely accepted across the country. The first middle school was started in 1950 in Bay City, Michigan. The number of middle schools grew to 499 by 1965 (Cuff, 1967). From that point, the growth of middle schools across the United States has been described as "the most remarkable phenomena in the history of American education" (Gatewood & Dilg, 1975, p. 1). From 1965 to 1977, the number of middle schools grew to approximately 4,060 (Brooks, 1978a). Today, Oklahoma schools have a multitude of grade organization patterns serving this middle group of students. "For general purposes, schools are organized on an 8-4, 6-2-4, 7-2-3, 6-3-3, K-6, 1-6, K-8, 1-8, or K-5-3-4 plan" (Oklahoma State Department of Education, 1987, p. 151). Unlike the middle grades, the first five grades (six including kindergarten) and the last three grades are not directly affected by these different school organizations.

Many school systems in Oklahoma have only two distinct schools, an elementary and a secondary. In those districts, the elementary school usually houses grades K-8 or K-6 and the secondary school contains either grades 9-12 or 7-12. Other Oklahoma school systems provide one or more junior high schools to serve the middle level student. Many of those junior high schools are made up of grades 7-8-9 or grades 8-9. Still another organizational structure employed in Oklahoma school systems includes the middle school, which generally consists of grades 6-7-8, but by definition could include only grades 6-7 or grades 7-8 (Oklahoma State Department of Education, 1987).

The recent growth of middle schools in the State of Oklahoma has followed the national trend. The first middle schools were begun in Oklahoma in 1970, and there has been a steady increase in the number of middle schools since that time. Butler (1983) reported that there were 93 accredited middle schools in Oklahoma during the 1981-82 school year. Jennings (1985) counted 109 Oklahoma middle schools for the 1984-85 school year. According to the <u>1989-90 Oklahoma</u> Educational Directory (Oklahoma State Department of Education, 1989), there were 153 accredited middle schools in the state. This number includes all schools with grade organizations of 5-6-7, 5-6-7-8, 6-7, 7-8, and 6-7-8, regardless of the specific name associated with any particular school.

Statement of the Problem

By looking at the numbers, the success of the middle school movement is indeed impressive. But numbers do not tell the whole story. Even though the middle school organizational structure has been widely accepted across the country, the implementation of middle school principles has not been totally successful.

William Alexander conducted a national survey of 110 middle schools in 1968. He concluded that the philosophical aims of the middle school were "not generally reflected in the curriculum plan and instructional organization" (p. 115) and that the programs were similar to those of the junior high school. Brooks (1978a, 1978b) ran a follow-up national survey and he found that middle school students were still grouped in traditional classrooms and taught in traditional ways. The middle schools which Brooks surveyed were "not easily distinguished in program from the junior high schools" and revealed "little significant difference from the findings of 1967" (1978b, p. 7).

Other studies on the implementation of middle school goals and practices reinforced the findings from the national surveys. Riegle (1971) developed a questionnaire outlining 18 middle school principles which has become a primary instrument in the study of middle school practices. He found that "the rapid increase in the number of schools labeled as middle schools has not been accompanied by a high degree of application of these principles" and that Michigan middle schools had a "long way to go to become middle schools as defined in the literature" (Riegle, 1971, p. 74). Similar conclusions were found in numerous studies outlined in <u>Organization of the Middle Grades: A Summary of Research</u> (Calhound, 1983). Calhound concluded that, "like junior high schools before them, middle schools generally failed to live up to the expectations of their proponents" (p. 81).

Similar findings have been found in Oklahoma. Butler (1983) surveyed 69 of the 93 middle schools in the state and found a low level of implementation of middle school concepts across the state. Butler concluded "that Oklahoma may have experienced a 'band wagon' approach to middle school education" and that the middle school movement in Oklahoma "appears to lack direction" (p. 56).

Jennings (1985) also found a generally low level of implementation of middle school concepts in Oklahoma. Jennings reported that "Oklahoma middle schools appeared to be developing patterns in the curriculum, activities and other areas that appear in the traditional junior high school" (p. 77) and that "school administrators have demonstrated only nominal adherence to accepted middle school characteristics/principles" (p. 78). Jennings concluded that "Oklahoma middle schools generally are functioning more in name than in fact" (p. 78).

Purpose of the Study

This study was conducted to determine the degree to which the middle school concept was being implemented by public school systems across the State of Oklahoma. A significant part of this study was devoted to the level of implementation of middle school practices as outlined by the professional literature and measured by the <u>Middle School</u> <u>Practices Index</u>. In addition, this study was designed to examine the school climate in selected middle schools of Oklahoma. School climate is a major area in which there are sharp distinctions between more effective and less effective schools (Sweeney, 1988). According to Gottfredson and Hollifield (1988, p. 63), school climate "determines whether the school can achieve excellence or will flounder ineffectively."

Therefore, this study was designed to specifically address the following four research questions:

1. What is the current level of implementation of recommended middle school practices across the State of Oklahoma?

2. How does the current level of implementation of recommended middle school practices compare to earlier studies by Butler (1983) and Jennings (1985)? 3. Is there a significant difference in school climate, as perceived by teachers, in schools that have a higher level of implementation of recommended middle school practices as compared to schools that have a lower level of implementation?

4. What significant relationships exist between the levels of implementation of the 18 specific recommended middle school practices and the 10 areas of school climate?

Significance

Beginning in 1950 and booming in the 1970s, the growth of middle schools was described as "one of the most notable educational movements of the past decade" (Soares, Soares, & Pumerantz, 1973, p. 381). But many middle schools exist in name only and do not exhibit the philosophies or practices of the middle school concept as described in the professional literature.

This study was conducted to analyze the state of the middle school in Oklahoma to determine if progress has been made in incorporating middle school concepts. This information may assist educators in identifying areas of concern regarding middle school education and give some direction to possible improvements in the future.

Limitations

The results of the study are only applicable to Oklahoma middle schools. There was no attempt to include other grade configurations or structures in the study and thus the results cannot be inferred to schools such as K-8 elementary schools or traditional 7-9 junior high schools.

Measurement of the degree of implementation of middle school concepts was limited to the 18 middle school characteristics measured by the <u>Middle School Practices</u> <u>Index (MSPI)</u>. School climate was limited to the perceptions of teachers concerning "the physical, social, and learning environments of a school" (Halderson, 1988, p. 3) as measured by the <u>NASSP School Climate Survey</u>.

Definitions

Middle School: A separate school setting which "shall include at least two consecutive grades in the sixth through eighth sequence" (Oklahoma State Department of Education, 1987, p. 43) and which contains no grades lower than grade five or higher than grade eight.

School Climate: "The relatively enduring pattern of shared perceptions about the characteristics of an organization and its members" (Keefe, Kelly, & Miller, 1985, p. 70). School climate was measured by the NASSP School Climate Survey and was focused upon teacher-student relationships, security and maintenance, administration, student academic orientation, student behavior values, guidance, student-peer relationships, parent and community relationships, instructional management, and student activities (Halderson, 1988). Middle School Practices: Those characteristics of a middle school which have been determined to exemplify the ideal middle school. These principles were measured by the Middle School Practices Index, developed by Riegle (1971), and include the following characteristics:

<u>Continuous progress</u>: The middle school program should feature a nongraded organization that allows students to progress at their own individual rate regardless of chronological age.

<u>Multi-material approach</u>: . . . a wide range of easily accessible instructional materials. Classroom activities should be planned around a multi-material approach rather than a basic textbook organization.

<u>Flexible schedule</u>: . . . a schedule that encourages the investment of time based on educational needs rather than standardized time periods. . . .

<u>Social experiences</u>: . . . appropriate for the transescent youth and should not emulate the social experiences of the high school.

<u>Physical experiences</u>: . . . based solely on the needs of the students. A broad range of intramural experiences . . . should supplement the physical education classes, which should center their activity upon helping students understand and use their own bodies.

<u>Intramural activities</u>: . . . intramural activities rather than interscholastic activities.

<u>Team teaching</u>: . . . teaching patterns that allow students to interact with a variety of teachers in a wide range of subject areas.

<u>Planned gradualism</u>: . . . experiences that assist early adolescents in making the transition from childhood dependence to adult independence, thereby helping them to bridge the gap between elementary school and senior high school.

Exploratory and enrichment studies: . . . program should be broad enough to meet the individual interests of the students . . . Elective courses should be a part of the program of every student . . . <u>Guidance services</u>: The middle school program should include both group and individual guidance services for all students.

<u>Independent study</u>: . . . the opportunity for students to spend time studying individual interests or needs that do not appear in the organized curricular offerings.

Basic skill repair and extension: . . . opportunities for students to receive clinical help in basic learning skills. . . .

<u>Creative experiences</u>: . . . opportunities for students to express themselves in creative manners. . . student-centered, student-directed, and student-developed activities should be encouraged.

<u>Security factor</u>: . . . provide every student with a security group: a teacher that knows him well . . .; a peer group that meets regularly . . .

<u>Evaluation</u>: . . . provide an evaluation of a student's work that is personal, positive in nature, non-threatening, and strictly individualized. . . .

<u>Community relations</u>: . . . a varied program of community relations. Programs to inform, to entertain, to educate, and to understand the community . . .

<u>Student services</u>: . . . specialized services for students. Community, county, and state agencies should be utilized to expand the range of specialists . . .

Auxiliary services: . . . utilize a highly diversified array of personnel such as volunteer parents, teacher aides, clerical aides . . . to facilitate the teaching staff (Riegle, 1971, pp. 43-45).

Summary

The growth of the middle school movement has been an important and impressive change in the organizational structure of American schools during the past 25 years. However, the implementation of middle school concepts in these new middle schools has not been nearly as successful. Oklahoma has experienced both of these trends.

This study was designed to assess the current status of middle schools in Oklahoma and to determine if there has been improvement in the implementation of middle school principles as outlined by the professional literature. Data were also gathered to examine whether the level of implementation of middle school concepts had any effect upon school climate.

The middle school is a relatively new educational phenomenon and, as such, is ripe for change and improvement. George (1982, p. 51) stated that "the middle school is probably the only major, humanistic, educator-inspired national innovation to survive and prosper over the last 20 years." According to Alexander (1988, p. 109), "much remains to be done for the middle level to achieve the role the early advocates dreamed about 20 years ago--that of catalyst for improvement of the entire school ladder."

CHAPTER II

REVIEW OF LITERATURE

A review of the literature provided a vast array of material pertaining to middle level education. The earliest writings were books by authors like William Alexander, Donald Eichhorn, Theodore Moss, John Lounsbury, Joseph Bondi, and Gordon Vars. During the late 1960s and early 1970s, these authors and others began to develop ideas about appropriate school experiences for the middle level student. Their books "extolled the virtues of the middle school model, discussed middle school philosophy and student characteristics, and provided recommendations for implementing and converting to the middle school" (Swiger, 1987, p. 4).

As the middle school movement gained in popularity during the 1970s and 1980s, the professional literature became more diversified. The National Middle School Association was formed in 1975 and published its own <u>Middle</u> <u>School Journal</u>, thus focusing attention on middle schools and relevant research studies. The subject of middle schools is a common topic in other educational periodicals and was the primary focus of the following issues of prominent educational journals: <u>Principal</u> (January 1981),

NASSP Bulletin (April 1974, May 1983), <u>Social Education</u> (February 1988), and <u>Phi Delta Kappan</u> (February 1990).

This review of the literature was focused primarily on describing the middle school student, articulating the philosophy and goals of the middle school concept, and listing the characteristics of middle school programs. The last portion of this review of literature contains a brief historical overview concerning school climate and reviews specific studies involving middle level schools and school climate. This review thus provides a foundation for analyzing the characteristics of middle school programs in Oklahoma and of the teachers' perceptions of school climate.

The Middle School Student

Any attempt to understand the middle school concept must begin with an understanding of the middle school student. Much has been written of the uniqueness of the physical, intellectual, social, and emotional characteristics of youngsters in the 11 to 14 age group. In the literature they are called adolescents, early adolescents, pre-adolescents, in-between-agers, middlescents, and transescents. The terms most commonly used are pre-adolescent and transescent, differentiating the middle school student from the child in elementary school and the adolescent or teenager in high school. Bichhorn (1966) described transescence as

the stage of development which begins prior to the onset of puberty and extends through the early

stages of adolescence. Since puberty does not occur for all precisely at the same chronological age in human development, the transescent designation is based on the many physical, social, emotional and intellectual changes in body chemistry that appear prior to the time in which the body gains a practical degree of stabilization over these complex pubescent changes (p. 3).

Moss (1969) described the general characteristics of both boys and girls from age 10 to 14. At 10, boys and girls are friendly, relaxed, happy, preoccupied with fairness, and somewhat antagonistic toward members of the opposite sex. Boys of that age tend to be more childlike and restless than the girls. At age 11, according to Moss, significant physical and emotional changes begin to occur in both boys and girls. They have increased appetites, restlessness, fatigue, and a strong tendency to talk endlessly. They also become more demanding, critical, moody, clumsy, and have dramatic swings in behavior.

At age 12, boys and girls display longer spans of attention, more ability to do independent work, more interest in the feelings of others, and boundless enthusiasm (Moss, 1969). Peer association and approval are very important. Boys are in varied stages of physical development, while most girls are more fully developed physically. The age of 13 is often a year of complex transitions involving body, mind, and personality. Boys experience rapid physical growth with the majority attaining 95% of their adult height. Boys and girls are moodier and more worrisome, like to be treated as adults, accept more individual responsibility, and desire increased peer group

affiliation and independence from parents. They are very interested in appearance, sensitive to criticism, and easily hurt.

At age 14, boys and girls become more robust and aggressive, more able to display special talents, and more willing to assume leadership roles (Moss, 1969). Boys continue their rapid physical growth and become even more interested in girls. Girls appear as mature young women and become preoccupied with dating.

Lipsitz (1979a) pointed out that there is no other age grouping in the human growth cycle that must confront so many physical, emotional, social, and intellectual changes than those of the transescent. The growth that transescents experience in these four areas is not continuous; rather it is variable and fluctuating. All children will experience growth, but the time of onset, the duration, and the degree of growth are primarily a function of variables both internal and external to the individual child (Lipsitz, 1979a; Wiles, 1976).

The most evident of the many changes which occur during the middle school years are biological in nature. Middle school advocates emphasized the importance of understanding the physical characteristics of middle school students (Eichhorn, 1966; Alexander et al., 1969; Bondi, 1972). Physical growth over the three to five year movement from childhood to adolescence was described by Alexander and George (1981) as probably the greatest of the human

experiences. Gatewood (1975) explained that the onset and intensity of physiological growth varies from person to person. Rapid and uneven physiological development creates psychological changes in the transescent. The transescent is typically very awkward and clumsy, aggressive and rough, and perpetually restless. Gatewood pointed out that, at a time when they need to be active and creative, youngsters are instead confined to school situations where passivity, concentrated attention, and strict behavior control are required.

Tobin (1973) listed the physical needs and characteristics of middle school students as

> increased interests in the physical aspects of the body, including its functions and changes; generally rapid, though irregular, physical development with resultant differences among peers due to uneven growth and development; generally a more advanced maturity of girls than boys; awkward and clumsy; great attention to personal appearances; restlessness because of need to release physical energy; and, responsiveness to leisure activities (p. 201).

The transescent youth is generally ignorant of the facts pertaining to growth variability and only cares about being like others of the same age and sex. The natural tendency is to want to be like everyone else, meaning to look and act like the most popular, most physically mature, and best looking. A frequently asked, typical question during this period is, "Am I normal?" (Alexander & George, 1981). Margaret Mead (1965) described early adolescence as the time when students "are more unlike each other than they ever have been before or ever will be again in the course of their lives" (p. 10).

The research is not conclusive as to what actually occurs in the intellectual development during transescence. Several middle school advocates (Alexander et al., 1969; Bondi, 1972; Eichhorn, 1984; Henry et al., 1981; Kindred, Wolotkiewicz, Mickelson, Coplein, & Dyson, 1976; Toepfer, 1985) relied upon the cognitive development theory of Jean Piaget to explain the intellectual development of middle school youngsters. Piaget believed that every individual evolves through five overlapping cognitive levels of development: preoperational, intuitive thought, sensorimotor, concrete operations, and formal operations.

The concrete and formal operations stages are associated with the years of transescence (Kindred et al., 1976; Toepfer, 1985). The concrete operations stage, generally occurring between the ages of 7 or 8 and 11 or 12, involves cognitive development associated with thought processes for ordering, classifying, and serializing the events and objects in the immediate environment. The formal operations stage begins around age 11 or 12 and involves a further systematization of the concrete practices, plus the ability to think abstractly.

Piaget's cognitive development theory implies that every child will achieve the formal operations stage of intellectual development sometime during transescence, but its onset will depend upon the variety and quality of experiences the child has in the environment. The rate and amount of learning thus becomes a function of an individual's experiences and the intellectual ability to process them. Eichhorn (1984) warned that instructional planners in the post-Sputnik era assumed that the preponderance of transescents were able to think in the abstract. This interpretation was used as justification for increasing the level of abstractness, such as algebra, in the middle level curriculum. "While some transescents were able to cope with this cognitive mismatch, most students found formal operations instruction frustrating" (p. 34).

Another area of research which had provided a rationale for the middle school concept is called brain growth periodization. This theory was based upon a biological justification of Piaget's cognitive development theory. Proposed by Epstein in 1976, this theory stated that there are five periods of brain growth spurts in child development and that they appear to correlate with the years of Piaget's cognitive learning stages. Brain spurts exist at ages 0 to 18 months, 2 to 4 years, 6 to 8, 10 to 12, and 14 to 16. It is during these periods that the child is most able to develop advanced thinking capacities (Epstein, 1977).

The age intervals alternating with brain growth spurts have been identified as brain plateaus. During these plateaus at ages 4 to 6, 8 to 10, and 12 to 14, the child is least able to develop advanced thinking skills. Advocates of the applicability of brain growth theory to education believe that children are able to learn new facts and information during brain plateaus, as long as the information is presented in a manner consistent with the thinking skills developed in the brain spurt prior to the plateau (Toepfer, 1982, 1985; Strahan, 1985).

Brazee (1983) wrote that the transescent learner is a concrete operations thinker in a brain plateau stage. The transescent needs to have direct experiences with the environment, needs to manipulate objects, and needs to be physically active in order to facilitate learning. According to Brazee, the transescent is not biologically capable of projecting from direct experiences to abstract ideas and should not therefore be expected to acquire knowledge through educational methods that stress formal operations and abstract thinking skills.

Middle school advocates see a very real danger of failure and frustration in over-challenging transescent learners with information and thinking skills applications that are above their levels of readiness (Alexander & George, 1981; Johnson, 1982; Strahan & Toepfer, 1984). Epstein and Toepfer (1978) went even further when they stated that pressuring the middle school youngster to develop new cognitive skills during a plateau stage sets up negative neural networks which can biologically inhibit the transmission of nerve energy, thus enhancing the possibility that transescents will react negatively to education and to learning in general.

Curricula designed for middle level students' cognitive development should be diverse, recognizing their short attention spans, high energy, and movement from concrete to formal levels of thinking. Active, concrete learning experiences with problem-solving exercises that challenge the students to search for answers will match their varying cognitive levels (Wall, 1981).

We have substantial evidence that increased earlier intellectual maturity has not paralleled the acceleration of physical development during transescence. . . For example, a youngster at concrete operational levels cannot master intellectual challenges that demand formal, abstract thinking abilities. The punishment has not yet been invented that will force children to learn (not memorize) something before their cognitive ability level at any given age (Toepfer, 1988, p. 111).

Toepfer relied upon data from an earlier study (Toepfer, 1985) to emphasize that, on the average, only about 5% of 11-year-olds, 12% of 12-year-olds, 20% of 13-year-olds, and 24% of 14-year-olds can actually do formal (abstract) thinking at these ages.

The acceleration and unevenness of physical and intellectual development may have many emotional and psychological side effects (Gatewood & Dilg, 1975). Levy (1988) described the life of a middle school student as being

characterized by spurts of physical and mental growth, social and psychological uncertainties, and all the unevenness and awkwardness that make this age the worst of times and, only occasionally, the best of times (p. 104). Georgiady and Romano (1977) described some of the emotional characteristics of transescence. The transescent appears to be out of control, demonstrating anger, fear, and love with great intensity. This often leads to scorn and ridicule by others, increasing the transescent's self-doubt, confusion, and frustration. These emotional tribulations can often create intense conflicts with parents or other authoritative figures. These emotional changes most commonly result in a strong need for affiliation by the transescent with a peer group. Being accepted into a peer group may be the transescent's greatest concern and produces constant worry about physical appearance, communication styles, and material possessions.

Tobin (1973) listed several social characteristics and needs, such as the desire to be different; the desire to be selective in choices of food, activities, and friends; peer consciousness; concern for right and wrong; and concern for less fortunate others. He described the characteristics of emotional uncertainties and conflicts of the transescent child as frequently impulsive with words and actions, having ambivalent desires, becoming more independent but desiring more direction, exhibiting a wide range of overt behaviors and mood instability, needing frequent successes, and desiring recognition.

Lipsitz (1980) pointed out that there are many indicators that may signal the troubled times of early adolescence. School violence reaches its height during the junior high years. The birth rate for mothers 15 years old and under is the only age group statistic not showing a The average age of runaways is 14. The average decline. age of children in foster care is 12. Juvenile crime blossoms around age 14. The percentage of eighth graders reported to drink alcohol excessively is between 20% and 30%. The suicide rate among young adolescents is rising rapidly. Yet many adults believe that the transescents will naturally grow up, that it is all right to ignore them, that it is acceptable to ridicule those in this age group, and that the children are just temporarily out of control. Lipsitz (1979b) wrote that it is a serious mistake by adults to ignore the internal and external pressures on the transescent, thinking that the conflicts experienced during this time of growing up will simply go away over time.

Levy (1988) emphasized that while they are becoming sexually mature, or perhaps sexually driven, transescents' mental and social development does not reach maturity until the late teens. Often these young people live in unstable families, have easy access to alcohol and drugs, and lack the personal relationships which would provide support during the stress of everyday adolescent life.

The menu of problems facing today's youth seriously affects character development during transescence--for example, youth suicide, dissolution of personality, and continued change and fragmenting of the support systems in their lives outside the school. Schools do not create these problems. Youngsters bring them to school each day (Toepfer, 1988, p. 110). Beane (1983) discussed social problems and how they affect the self-concept and self-esteem of the transescent youth. Television suggests values, behavior, dress, and other aspects of an ideal self that are far removed from the realities of real life. An abundant array of lifestyles presents an unsure picture of right and wrong to the transescent. Both easy access to drugs and alcohol and increased sexual activity offer convenient means of escape.

Given the central place of self-perceptions in the transescent personality, the school must do whatever it can to enhance those self-perceptions so that growth and development through this stage is as positive and constructive as possible (Beane, 1983, p. 66).

In All Grown Up and No Place to Go: Teenagers in Crisis, Elkind (1984) focused upon our rapidly changing society and how it has influenced the teenager. Young people and adults alike are often unsure of what limits to set and what values to enforce. Elkind proposed that a teenager must achieve a sense of self and a sense of identity during these troublesome years. He emphasized that adults cannot deny young people the time, the support, and the guidance they need to arrive at an integrated definition of self.

The need to address these societal and cultural concerns during the middle school years has been a focus of many middle school advocates. Csikszentimihalyi and McCormack (1986) found that, outside of school, the typical adolescent spends about two hours a day in the company of mature adults. They concluded that the time young people spend with teachers "is the single most important opportunity for them to learn from adults in our culture--a culture that has essentially delegated the upbringing of its young to educational institutions" (p. 417).

Middle school advocates recognized the importance of the middle school years as a very significant time in human development.

These are the prime years, the years during which one's value system, one's behavior code, and one's self-esteem are largely formed. When the adolescent leaves the middle level institution, his or her personality and personal values are largely set for life (Lounsbury, 1987, p. 35).

Adult value patterns are largely set during one's middle level school years. The physical, emotional, and social metamorphosis of early adolescence is the capstone of the basic character developed by most humans (Toepfer, 1988, p. 110).

Many middle school leaders believe that the interest-finding and -serving activities and services of the schools in the middle are education's best preventatives for such perplexing problems of adolescence today as school dropout, learner apathy, juvenile delinquency, drug abuse, and teenage pregnancy (Alexander, 1988, p. 109).

Levy (1988) explained that the curriculum in successful middle schools must be sensitive to student needs for socialization, provide for activities with variety and challenge, and encourage active involvement. Honig (1988) saw the middle grades as the last chance for many students to develop a sense of academic purpose and personal commitment to educational goals. Those who fail at the middle school will often drop out of school and may never again have the opportunity to develop to their fullest potential. Eichhorn (1983) provided a summary of the basic characteristics of the transescent and the need to address these characteristics in educational programming. He stressed that effective middle school programs are those which have a causal relationship with learner characteristics. Eichhorn provided a partial listing of the traits of the middle school learner.

Transescents: * vary widely in the rate at which they are maturing physically, and in the age at which they mature. * are emotionally insecure. * reflect a range of intellectual stages. * desire and need responsibility. * cling to childhood, yet feel a conflicting yearning for adolescent sophistication. * are group minded. * become intensely loyal--to friends, classmates, school: yet loyalties are brief and shift frequently. * have intense but short-lived interests. * possess an insatiable curiosity and thirst for knowledge. * present a variety of achievement levels to the teacher (p. 46).

Eichhorn explained that these traits produce certain transescent needs which require action by curriculum makers. These include the need for intellectual growth, the need for individual attention, the need to understand self, the need to know others, and the need for varied instructional methods. Eichhorn then described a successful middle school program as one that is directly related to these student traits and needs. Such a program has a controlled but nonrigid school atmosphere, encourages activity, has a variety of learning experiences, and provides opportunities for group interaction and physical activities. "A middle grade school that is dynamic, exciting, and industrious will be academically effective" (Eichhorn, 1983, p. 47).

The Middle School Concept

As noted earlier, the middle school concept developed out of criticism of the junior high school's inability to address the needs of the students from ages 11 to 14. "The current assembly line posture of schools for this middle level (referring to junior high schools) cannot accommodate the human needs that students bring to it" (Toepfer, 1973, p. 5). Wiles (1976) concluded that the junior high school had become too content-based and academically-oriented, while the new middle school concept embodied the developmental needs of the transescent learners. The changes proposed by early middle school advocates not only involved structural changes in grade organization but also a renewed effort toward establishing a truly student-centered educational setting.

The middle school was seen as an opportunity for educators to make changes in the educational programs which would more appropriately meet the needs of students in the stages of early and pre-adolescence. The Emergent Middle School (Alexander et al., 1969) promoted a school which provided an educational program especially adapted to the wide range of individual differences and needs of the "inbetween-ager," while providing continuity of education and needed innovations in curriculum and instruction. Even though it began as a reaction to the junior high, advocates have continually stressed the uniqueness of the middle school concept. This uniqueness was explained by Atkins (1988) as being not so much a matter of organization, courses, groupings, staffing, or schedules as it is a matter of attitude, expectation, sensitivity, and perception. Atkins promoted a middle school program that featured four learning situations: diagnostic teaching, individualized instruction, self-direction, and learner-centered evaluation.

Alexander (1971) viewed the middle school as a unique educational approach focused squarely on the period of growth and development between childhood and adolescence, and not as an extension upward of the elementary school or as an extension downward of the high school. Lounsbury and Vars (1971) promoted the middle school concept as a "new opportunity, a new rallying point, a fresh start" (p. 19). Overly (1972, p. 15) stated that "humanizing education, or providing a needed humaneness toward youth during a unique growth and development period" was the real intent of the middle school.

Building from the characteristics of the transescent, the middle school philosophy stressed the need for transition between the elementary and secondary schools. Batezel (1968) believed that a sound middle school program should include gradual transition from the self-contained classroom of elementary school to the departmentalized

organization of the secondary school. He noted that during this transition it was important that every student had at least one teacher whom the student knew well and who knew the student well. The school organization had to be flexible enough to provide the middle school children with an environment in which their needs were most important. Likewise, McGlasson (1973) proposed that a middle school should be

a program of transitional education which assists boys and girls to move from elementary to secondary education with maximal success. It may include various grade levels or it may be nongraded, depending on the characteristics and needs of the boys and girls of the school district (p. 28).

Curtis and Bidwell (1970) stated that the middle school should be based upon the assumptions of complete personalization of purposes, of criteria for achievement, and of instructional procedures for the emerging adolescent. It is essential for the development of a plan for instruction to take into account the range of differences found among middle school students. Instructional programs must recognize the differences in individual students and in their stages of maturation. These differences must be reflected in the purposes, methods, and objectives of the middle schools.

Wall (1981) also stated that a good middle school curriculum is one that reflects the diverse physical, mental, and emotional levels of the students. Physical and cognitive activities need to be structured with frequent transitions and variations, keeping in mind that middle school students have an estimated attention span of only 20 minutes.

A curriculum that keeps early adolescents' characteristics in mind and stretches activities from concrete to formal, using a variety of subjects and teaching approaches, will be a middle school success (Wall, 1981, p. 9).

As the middle school movement grew during the 1970s and 1980s, middle school advocates developed specific lists devoted to the articulation of curricula and programmatic goals. In 1977 the National Middle School Association adopted five "priority goals" which were considered to be generally acceptable to middle school planners and practitioners.

- 1. Every student should be well known as a person by at least one adult in the school who accepts responsibility for the student's guidance.
- 2. Every student should be helped to achieve optimum mastery of the skills of continued learning together with a commitment to their use and improvement.
- 3. Every student should have ample experiences designed to develop decision-making and problem-solving skills.
- 4. Every student should acquire a functional body of fundamental knowledge.
- 5. Every student should have opportunities to explore and develop interests in aesthetic, leisure, career, and other aspects of life. (NMSA, 1977, p. 16)

Howell (1980) made six recommendations for the implementation of the middle school concept: 1) the program should reflect the needs of individual students; 2) the curriculum and schedules should accommodate an appropriate amount of independent study time according to the maturity of the individual students; 3) the program should incorporate a non-graded schedule that permits social and academic integration on a daily basis; 4) the curriculum should focus on teaching individuals how to learn; 5) the school climate should focus on the individual socially, psychologically, and academically; and 6) the need for special teacher training necessary to cope with the emerging adolescent should be recognized.

Molitor and Dentler (1982) developed a list of eight of the most frequently expressed aims of the middle school philosophy.

- 1. The middle school program should emphasize individual personal growth. It should be `child-oriented' rather than `subjectoriented.'
- 2. The middle school program should focus on the `whole child' and encourage his development in all areas: physical, social, intellectual, and emotional.
- 3. The middle school program should adapt to the great differences in maturity, learning styles, and levels of ability among children in the middle grades. The program should provide opportunities for working with each child at his own level and on his individual needs and interests.
- 4. The middle school program should emphasize broad learning and exploration. The program should avoid premature specialization or channeling of student interests.
- 5. The middle school program should focus on the continued development of basic skills and critical thinking and learning skills. There should be less emphasis on the acquisition of specific information in the content areas.
- The middle school program should emphasize integration of information within and across subject areas.
- 7. The middle school program should be distinctive from other levels of education, and provide a smooth transition from the self-contained elementary classroom to the more complex environment of the senior high.

8. The middle school program should recognize the increased sophistication of today's children, yet avoid placing them in social situations for which they are not ready (p. 17).

Another important theme found in the literature concerning the articulation of the middle school concept dealt with retrospective analysis of the middle school movement by leading middle school advocates. Many of these articles addressed the problem of middle level schools created by changing only the grade structure and name from the traditional junior high but maintaining the previous curriculum plan and/or instructional organization. During an interview in 1982, Alexander stated, "I think the middle school could become a declining institution too, if we continue to focus on the organization rather than on age grouping and the program" (p. 4). Likewise, Yoder (1982) wrote that it is not the label one places on a building that is important, but rather the program that exists inside.

The extent to which the middle school becomes a viable educational alternative to traditional schools is directly proportional to the ability of middle school educators and researchers to identify and investigate the developmental needs and learning capacities of the students which it serves (Thornburg, 1981, p. 134).

In 1988, Alexander reviewed the priority goals that the National Middle School Association had adopted in 1977 and commented upon the efforts made to achieve them. He concluded that, although some middle schools were trying to have every student well-known by at least one adult through home base or advisory group plans, most schools still

lacked full commitment to and implementation of the idea. Alexander noted that the elementary-middle-secondary school plan was making more provisions toward helping every student achieve optimum mastery of the skills of continued learning than had either the elementary-secondary or the elementaryjunior-senior high. Alexander also wrote that the middle school practices of interdisciplinary team teaching and planning were conducive to providing students with ample experiences in problem-solving and decision-making skills, as well as providing them with a functional body of fundamental skills. According to Alexander, these goals were being implemented in exemplary middle schools across the country, but he expressed some skepticism regarding "how widely such critical middle level elements are found in all of our roughly 12,000 schools in the middle" (p. 109).

Middle School Characteristics

The development and articulation of middle school characteristics has been a vital part of the professional literature pertaining to middle level education. A review of the literature revealed several lists of characteristics deemed necessary by middle school advocates to effectively meet the varying differences in the physical, social, emotional, and intellectual needs of pupils during their middle school years. Johnson (1980) stressed the importance of having a well-defined purpose based upon theory and philosophy of middle schools advocated by nationally

recognized authorities in the field and upon the characteristics deemed essential by such authorities and supported by research. The National Middle School Association emphasized this position in the publication <u>This</u> We Believe.

The middle school stands for clear educational concepts which evolve from a melding of the nature of the age group, the nature of learning, and the expectations of society. There should be, then, certain conditions, factors, and programmatic characteristics that are identifiable and that would be present in a true middle school (NMSA, 1982, p. 1).

Compton (1968) provided 10 elements that should be shared by middle schools as an "alternative to the status quo."

- 1. Articulation with the elementary school to ensure easy transition for youngsters.
- 2. Team teaching by subject matter specialists in areas of general knowledge which are closely related.
- 3. Skill laboratories staffed by technologists with subject matter competencies to provide remedial, developmental, and advanced instruction in such skills as reading, listening, writing, mathematics, science, foreign language, art, music, and physical education.
- 4. Independent study for all students, commensurate with the topic selected for study and the student's needs, interests, and abilities.
- 5. A home-base group assigned to a teacher with special training in guidance and counseling, as well as the time and opportunity to aid children with personal and academic problems on a regularly scheduled basis.
- 6. A program of activities in which each student will be able to participate--based on the personal development of students rather than on enhancement of the school's prestige or the entertainment of the public.
- 7. A plan of vertical school organization providing for continuous progress of students.

- 8. Valuative techniques in light of individual progress, rather than the prevalent punitive system of assigning grades in terms of some elusive `average' for a particular chronological age group.
- 9. A program tailored to the needs of each student, with individualized student schedules.
- 10. An instructional and administrative staff with an understanding of the in-betweenagers, competence in teaching at least one subject area, and a genuine desire to provide the best possible program for these youngsters (pp. 108-110).

Gibson (1978) surveyed middle schools from all parts of the United States in 1969 and from his study outlined seven characteristics of middle schools.

- 1. A span of at least three grades to allow for a gradual transition from elementary to high school practices.
- 2. Emerging departmental structure in each higher grade level to effect gradual transition from self-contained to departmentalized situations.
- Flexible approaches to instruction, team teaching, flexible scheduling, individualization of instruction, independent study, and tutorial programs.
- 4. Required special courses taught in departmentalized form and frequently with an interdisciplinary or multidisciplinary approach.
- 5. A guidance program as a distinct entity to fill the special needs of this age group.
- 6. A faculty with both elementary and secondary certification.
- 7. A limited attention to interscholastic sports and social activities (pp. 18-19).

Moss (1971) stated that "middle schools in words (theory) may not be the same in actuality (practice)" (p. 71). Moss listed 15 desirable characteristics of good middle schools but stated that no one school necessarily possesses all of these 15 characteristics.

- 1. Commitment to the age group 10-15 is evidenced by teachers and administrators.
- 2. A clearly defined statement of the middle school has been cooperatively developed.
- 3. Continual review of the middle school objectives and operation of the curriculum is carried out by teachers, administrators, and students.
- 4. The guidance program is a total school concern.
- 5. A block of time or core program is provided for at least two, but preferably for all, years of the middle school.
- 6. Flexibility is built into the middle school.
- 7. Personalized learning is a major part of the curriculum.
- 8. In-depth units are planned for varying ability levels in science, mathematics, the language arts, and social studies.
- 9. A strong health education program is a major feature of the middle school curriculum.
- 10. An evaluation program includes student and parent conferences, letters, and check lists.
- 11. The arts are given greater prominence in the curriculum.
- 12. Physical education activities are related to the developmental characteristics of middle school students.
- 13. A wide variety of interest electives, open to all students, are featured in the curriculum.
- 14. Modern language instruction is provided for all students.
- 15. Outdoor education programs are the concern of all teachers (p. 72).

Riegle (1971) developed a questionnaire which effectively measured the level of implementation of 18 basic middle school characteristics and then compared Michigan schools with nationally recognized exemplary middle schools. Referred to only as "The Questionnaire" in his 1971 dissertation, this instrument later became known as the <u>Middle School Practices Index</u>. Crowder (1982) reported that Riegle's survey instrument had been used in several middle school research studies since 1971, including those of Kramer (1974), Raymer (1974), Caul (1975), Beckman (1978), and Wah (1980). Riegle's list of 18 recommended principles is presented in Appendix A.

In Oklahoma, the Riegle instrument was used in research studies by Butler (1983) and Jennings (1985). Butler (1983) surveyed 69 of the 93 middle schools in the state and found a low level of implementation of middle school concepts. Butler concluded "that Oklahoma may have experienced a `band wagon' approach to middle school education" and that the middle school movement in Oklahoma "appears to lack direction" (p.56). Jennings (1985) also found a generally low level of implementation of middle school concepts in Oklahoma. "Oklahoma middle schools appeared to be developing patterns in the curriculum, activities and other areas that appear in the traditional junior high school" (p. 77). "School administrators have demonstrated only nominal adherence to accepted middle school characteristics/ principles" (p. 78). From those findings, Jennings concluded that "Oklahoma middle schools generally are functioning more in name than in fact" (p. 78).

In addition to being used widely in empirical research studies, Riegle's work was also the basis for an article by Georgiady, Riegle, and Romano in the April 1974 issue of the <u>NASSP Bulletin</u>. The authors presented a group of 17 characteristics derived from their review of the literature and discussions with leading practitioners. Their article "What are the Characteristics of the Middle School?" included the following subtitles: (1) Continuous Progress,

(2) Multi-material Approach, (3) Flexible Schedules, (4) Social Experiences, (5) Physical Experiences and Intramural Activities, (6) Team Teaching, (7) Planned Gradualism, (8) Exploratory and Enrichment Studies, (9) Guidance Services, (10) Independent Study, (11) Basic Skill Repair and Extension, (12) Creative Experiences, (13) Security Factor, (14) Evaluation, (15) Community Relations, (16) Student Services, and (17) Auxiliary Staffing.

According to Trauschke and Mooney (1972), the following characteristics best describe the middle school organization.

- 1. A middle school takes full cognizance of the dynamic physical, social, and intellectual changes that are occurring in young people during the 10-14 year old age span, and provides a program with a major purpose of creating a facilitative climate so that the transescent can understand himself and the changes that are occurring in and around him.
- 2. Location of the ninth grade in the high school.
- Provision of opportunities for innovation (team teaching, individualized instruction, flexible scheduling, and continuous progress).
- 4. De-emphasis on marching band, interscholastic athletics, and dances.
- 5. Opportunities for exploratory and enrichment activities.
- Instructional staffs which combine the usual talents of elementary-orientated teachers with the specialized talents characteristic of secondary teachers (p. 171).

In 1975, a publication by the Association for Supervision and Curriculum Development, <u>The Middle School We</u> <u>Need</u> (Gatewood & Dilg), proposed the following characteristics for a middle school seeking to make education relevant to the needs and interests of the

individual.

- 1. A unique program adapted to the needs of the pre- and early adolescent learner.
- 2. The widest possible range of intellectual, social and physical experiences.
- 3. Opportunities for exploration and development of fundamental skills needed by all while making allowances for individual learning patterns. It should maintain an atmosphere of basic respect for individual differences.
- 4. A climate that enables students to develop abilities, find facts, weigh evidence, draw conclusions, determine values, and that keeps their minds open to the new facts.
- 5. Staff members who recognize and understand the student's needs, interests, backgrounds, motivations, goals, as well as stresses, strains, frustrations, and fears.
- 6. A smooth educational transition between the elementary school and the high school while allowing for the physical and emotional changes taking place due to transescence.
- 7. An environment where the child, not the program, is most important and where the opportunity to succeed is ensured for all students.
- 8. Guidance in the development of mental processes and attitudes needed for constructive citizenship and the development of lifelong competencies and appreciations needed for effective use of leisure.
- 9. Competent instructional personnel who will strive to understand the students whom they serve and develop professional competencies which are both unique and applicable to the transescent student.
- Facilities and time which allow students and teachers an opportunity to achieve the goals of the program to their fullest capabilities (pp. 2-3).

Kindred, Wolotkiewiez, Mickelson, Coplein, and Dyson (1976) developed a practitioner's handbook in which they highlighted the characteristics of a transitional school organized in accordance with the developmental needs of the middle school student. They noted that a middle school should have a unified curriculum, emphasizing the continuation of basic education in the fundamentals. The middle school program should emphasize self-actualization and self-direction by providing opportunities for students to explore some of their own interests and to make tentative decisions about their futures. The middle school program should promote the use of innovative teaching methods and techniques. Finally, the middle school must focus upon the cultivation of individual and social skills to best prepare early adolescents for productive lives in an ever-changing society.

Brown (1981) listed 21 characteristics supported by the then-current literature and validated by 15 middle school supporters. Those characteristics

have a planned sequence of concepts in the general educational areas; a major emphasis on interests and skills for continued learning; a balanced program of exploratory experiences and other activities and services for personal development; and appropriate attention to developing values (p. 18).

Brown's 21 characteristics included the following topics:

- 1. Grade Organization
- 2. Team Teaching
- 3. Instructional Planning
- 4. Student Groupings
- 5. Flexible Scheduling
- 6. Continuous Progress
- 7. Individualized Instruction
- 8. Independent Study
- 9. Instructional Materials
- 10. Basic Skills
- 11. The Exploratory Strand
- 12. Reading Skill Development
- 13. Creative Experiences
- 14. Social Development
- 15. Intramural Sports
- 16. Focus on Growth and Development
- 17. Individualized Guidance Services
- 18. Home Base Program

- 19. Value Clarification
- 20. Student Evaluation
- 21. Transition from Elementary to High School (pp. 18-19).

In an article focusing upon the role of the middle school principal as instructional leader, Ferguson (1981) attributed the development of a successful middle school to 15 characteristics.

- 1. Every student receives instruction and help with basic skills, with emphasis placed on reading.
- 2. Each student is able to explore a wide variety of learning areas and activities, with emphasis upon expressive arts and career education . . .
- 3. The curriculum emphasizes the changes taking place in the world and how young adolescents cope with changes.
- 4. The curriculum helps students to learn how to study and appraise their own interests and talents.
- 5. Democratic ideals are stressed and practiced by students, teachers, and administrators.
- 6. Students are allowed initiative and choices in what they do and how they do it.
- Homework is utilized . . . (a) to provide practices for reinforcing basic skills, (b) to develop students' responsibility for their own learning.
- 8. Every student is well known by at least one teacher.
- 9. Guidance and special resource teams are important parts of the learning program. . .
- 10. Time for exploration activities is provided with the daily class schedule.
- 11. The progress of each pupil is measured in relation to his/her own past achievement.
- 12. Emphasis is on intramural sports.
- 13. Student report cards are supplemented with parent-teacher contacts and a variety of written reports.
- 14. Opportunities for cooperative teacher planning are provided.
- 15. The principal gives highest priority to the improvement of instruction (pp. 162-165).

In The Exemplary Middle School, Alexander and George

(1981) provided 12 essential characteristics of a successful

middle school: (1) a philosophy statement and school goals based upon the educational needs of the transescent, which are used in program planning and evaluation; (2) a system of planning and evaluation specifically designed for the middle school program and which involves all concerned persons in the school community; (3) a curriculum which provides for continuous progress, basic skills, interaction, and personal development; (4) a guidance program that relies on individual faculty members well known to the individual student; (5) interdisciplinary teams which plan, teach, and evaluate specific thematic units; (6) nontraditional student grouping for instruction which facilitates multi-age instructional arrangements to maximize continuous progress; (7) block and/or core scheduling for flexibility and efficiency; (8) planning and use of facilities to provide flexibility for varied program opportunities; (9) a balanced variety of instructional strategies to accommodate the learning needs of all students; (10) a staff development program to provide continual faculty renewal on middle school issues and to permit opportunities for staff input and leadership: (11) a plan for evaluating student progress in the achievement of stated school goals; and (12) continual examination of the middle school population to identify and address changing needs and conditions of the future.

Wiles and Bondi (1981) presented 20 similar characteristics in their book <u>The Essential Middle School</u>:

- 1. A philosophy and objectives cooperatively developed by community and staff and that are based on the uniqueness of the middle school student.
- 2. Staff members who recognize and understand the unique emotional, physical, and social problems of the middle school student.
- 3. Auxiliary staffing such as teacher aides, parent volunteers, community helpers.
- 4. An environment which assures all students the opportunity to succeed.
- 5. A general education curriculum with emphasis on learning how to learn.
- Learning experiences that provide continuous progress and assure articulation from elementary to high school.
- 7. Cooperative teaching such as team teaching and interdisciplinary team planning.
- 8. An open climate that encourages students to develop problem solving skills and to be receptive to new ideas.
- 9. An exploratory or personal interest program to help students discover more about themselves and the world around them.
- 10. Independent study time with a resource teacher.
- 11. Opportunities to express creative talents such as dramatic and music programs, newspapers, and art.
- 12. A multimaterial approach to all classes.
- 13. A media center which houses a wide range of materials and opportunities for students to produce media of their own.
- 14. Flexible class schedules that are based on the instructional needs of students.
- 15. A strong intramural program that replaces the traditional competitive athletic programs.
- 16. Appropriate social experiences that provide for the unique needs of this age group.
- 17. Appropriate guidance services that include teacher-pupil counseling and trained guidance counselors.
- 18. Physical facilities which allow for a diversity of grouping patterns and activities.
- 19. Continuous inservice education that emphasizes the uniqueness of the middle school student.
- 20. A community relations program that provides information about school programs and activities, and involves parents and other community members in the decision making process of the school (pp. 319-20).

In 1982 the National Middle School Association (NMSA) published <u>This We Believe</u>, a booklet which identified 10 essential ingredients of effective middle school programs. Those schools (1) have teachers committed to transescents; (2) have a balanced curriculum based on the individual needs of the transescent student; (3) operate a range of organizational teaching arrangements; (4) use varied instructional strategies; (5) provide exploratory opportunities to students; (6) provide comprehensive advising and counseling; (7) allow for continuous progress; (8) provide for evaluation of individual student progress; (9) require cooperative planning by teachers; and (10) maintain a positive school climate.

Lipsitz (1984) conducted a major study to determine the characteristics of effective middle level schools. She asked 100 national researchers and practitioners to nominate effective middle level schools and to identify five common characteristics of those schools. All but one of the nominated schools were called middle schools. The most commonly identified characteristics included high overall scores on standardized achievement tests, low absenteeism, low incidence of vandalism and victimization, little or no evidence of graffiti, general parental satisfaction, a reputation for excellence, and joy on the part of the students. According to Lipsitz, the most striking feature of the selected schools had to be the willingness and ability to adapt all school practices to the individual

differences in intellectual, physical, and socio-emotional development of their students. Lipsitz found that the identified effective schools emphasized academic achievement, expected proper behavior from students; stressed an elementary school approach to instruction while resisting departmentalization, demonstrated feelings of caring for one another from both students and teachers, encouraged teachers to use cooperative planning and interdisciplinary team teaching, and constantly maintained a positive school climate. Lipsitz concluded that effective middle level schools demonstrate six overall characteristics: (1) a coherent philosophy about how young adolescents learn, (2) consistency of expectations, (3) a positive feeling about young adolescents, (4) high energy levels for job performance, (5) teachers who are acknowledged as professionals, and (6) organizational ingenuity that reduces teacher and student isolation.

George and Oldaker (1985) identified and surveyed 130 exemplary middle schools. They found that, among these exemplary schools, 90% were organized into interdisciplinary teams; 94% used flexible scheduling, often in blocks; 93% had advisor-advisee periods; and 99% focused the curriculum on students with a wide variety of exploratory courses. When considering the perceptions of the middle level educators in these schools, 62% described increases in academic achievement; 80% reported increases in student emotional health, creativity, and confidence; 90% noted the belief that student self-concept and social adjustment improved; 95% perceived that student attitudes toward school improved; 75% described better school attendance; 94% reported an increase in staff morale; and 82% noticed an increase in staff participation in school activities.

Aromi, Roberts, and Morrow (1986) compared seven middle schools which had been identified as having exemplary programs in 1971 to determine their status in 1984. They found that the schools had continued their effectiveness, with improvement in exploratory activities, teacher-student guidance activities, articulation programs with the elementary and high schools, community involvement, and strategies for student self-articulation. The research study did show a decline in cooperative team planning and teaching and in the use of flexible scheduling activities.

Binko and Lawlor (1986) investigated how extensively 24 identified practices had been implemented in middle schools. By surveying teachers and administrators in 75 school districts, they determined which practices were most evident and which were least evident in the schools. The five practices most evident were:

- * Emphasis on basic skills
- * Differentiation of teaching methods according to student ability
- * Utilization of media
- * Differentiation of subject area objectives according to ability
- * Encouraging creative ideas by students (p. 83).

The five practices rated least evident included:

* Interdisciplinary team-teaching

* Single discipline team-teaching

* Teacher functioning in role of counselor * Provisions for mini-courses * Use of a non-graded organization (p. 83).

Swiger (1987) wrote that there are four essential components upon which the effectiveness and overall success of a middle school program depend. The four components are interdisciplinary instruction, teacher characteristics. guidance activities, and intramural activities. He stated that the "aim of interdisciplinary instruction becomes not just the teaching of students, but is, more importantly, the promotion of communication, coordination and cooperation among subject matter specialists" (p. 51). Swiger noted that teacher characteristics are "the catalyst that makes all organizational and programmatical aspects of the middle school function appropriately to meet the needs of the learner" (p. 57) but are also an area of grave concern for middle school advocates because of the lack of special training and the tendency to have a district's poorer teachers assigned to the middle level school. Because it should focus upon the role of the teacher in providing guidance activities for transescents, Swiger noted that the success of the guidance program will be significantly interrelated with the interdisciplinary team and teacher characteristics components of a successful middle school program. The fourth essential component identified by Swiger is the use of a well-organized intramural program to provide activities for individual differences, needs, and interests of the transescent student. Intramurals offer

students the opportunity to explore various physical education activities and the chance to develop emotional and social stability through their interaction with peers.

Merenbloom (1988) developed 11 characteristics of an effective middle school by accumulating literature from the middle school movement and effective school research. According to Merenbloom, the key to the successful implementation of these characteristics is the active involvement of teachers in the staff development process. An effective middle school:

- 1. Features a program that responds to the physical, intellectual, social-emotional and moral needs of early adolescents.
- 2. Has a set of documents to guide all aspects of the program.
- 3. Possesses a definite curriculum plan that includes organized knowledge, skills, and personal development activities.
- 4. Has a clearly established program of studies based upon the concept of exploration and provides opportunities for student growth.
- 5. Builds on the strengths of elementary education and prepares students for high school.
- Employs teachers who focus on the learning needs of pupils by using appropriate teaching strategies.
- 7. Creates teaching teams using blocks of time to best deliver the instructional program.
- 8. Emphasizes the guidance and counseling function of staff members by providing for a home-base program, stressing the importance of self-concept, and providing a positive climate.
- 9. Promotes flexibility in implementing the daily, weekly, and monthly schedule to meet the varying needs of students.
- 10. Actively involves parents in various aspects of the school experience.
- Evaluates the program on a regular basis and makes changes that enhance the learning (pp. 5-9).

A final list of characteristics was provided by Alexander and McEwin (1989), who in 1988 replicated a 1967-68 national survey of middle schools. These authors reported that over the 20 years "impressive numbers of schools did succeed in becoming `real' middle schools" (p. 2). They listed six characteristics or earmarks generally considered as critical in achieving educational quality in middle schools.

- 1. An interdisciplinary organization, with a flexible scheduled day. . . .
- 2. An adequate guidance program, including a teacher advisory plan. . .
- 3. A full-scale exploratory program. .
- 4. Comprehensive curriculum provision for the broad goals of personal development, continued learning skills, and basic knowledge. . . .
- 5. Varied and effective instructional methodology for the age group. . .
- 6. Continued orientation and articulation for students, parents, and teachers (pp. 3-7).

The earmarks against which we checked some of our data about school characteristics should be present in all good schools in the middle, although we expect that changes will develop and other earmarks will be added. Continued discussion, experimentation, and evaluation are essential for agreement on the essential goals and practices of schools in the middle (Alexander & McEwin, 1989, p. 7).

School Climate in the Middle School

Although there is an abundance of information and research on school climate, research addressing the more narrowly defined topic of middle school climate is limited. This portion of the review of literature provides a brief overview of the attention to school climate in educational research followed by an examination of specific studies which were focused on school climate in middle level schools.

The measurement of school climate has proceeded along a number of rather divergent lines, being associated with institutional demands on students, average student characteristics, teacher attitudes or perceptions, and student satisfaction with school (Anderson, 1985). One of the earlier approaches to analyzing school climate was developed by Halpin and Croft (1963). After having collected data from six different regions of the country, they developed a scale for measuring schools along a continuum from "Open Climate" to "Closed Climate." The instrument which they developed, the Organizational Climate Descriptive Questionnaire (OCDQ), was based upon the assumptions that something actually exists which is properly called organizational climate and which is related to and determined by the actual and perceived behavior of principals and teachers.

Likert (1967) developed a climate assessment instrument called the <u>Profile of Organizational Characteristics</u> (<u>POC</u>). The <u>POC</u> focused upon the superordinate-subordinate relationships within the organization. Those relationships are ranked along a continuum from Exploitative to Participative and the organization is then categorized as one of four systems: Exploitative-Authoritative, Benevolent-Authoritative, Consultive, or Participative. Walberg and Anderson (1968) developed the Learning Environment Inventory (LEI) to assess student perceptions of school climate. This instrument has subtests in the areas of Cohesiveness, Diversity, Formality, Speed, Environment, Friction, Goal Direction, Favoritism, Cliqueness, Satisfaction, Disorganization, Difficulty, Apathy, Democratic, and Competitiveness. The LEI thus defined the social/psychological aspects of school climate. Walberg (1970) noted that while much of the reliable variance in student academic performance was attributed to student aptitude, a significant amount was attributable to climate.

Stern (1970) developed the Organizational Climate Index based upon Murray's Needs/Press Model. This instrument and other related questionnaires were used to determine the extent to which psychologically relevant structures existed in the environment for facilitating or impeding the expression of a need. From the data generated by Stern's instruments, environments could be placed into different classifications called cultures. Stern's work initially dealt with university-level groups, but his instruments were later modified to measure climate variables at the high school and elementary school levels.

The <u>School Climate Profile</u> was developed by the Charles F. Kettering Task Force (Fox et al., 1974). It emerged from a project called "Principal as a School Climate Leader" (PASCL). This instrument, also referred to as the <u>CFK Ltd.</u> <u>Profile</u>, was used to assess the consensus of school administrators and practitioners about the day-to-day aspects of climate. The task force report contained two major goals of school climate for students: (1) to provide a wholesome, stimulating, and productive learning environment conducive to academic achievement and personal growth of youth at different levels of development and (2) to provide a pleasant and satisfying school situation within which young people can live and work. The task force study identified eight factors which result from the interaction of the school's programs, processes, and physical conditions. Those factors, listed below, were said to determine the quality of the school's climate.

- 1. <u>Respect</u>. Students, teachers, and administrators should see themselves as persons of worth.
- 2. <u>Trust</u>. Confidence that others can be counted upon to behave in an honest manner.
- 3. <u>High Morale</u>. People feeling good about what is happening.
- 4. <u>Opportunities for Input</u>. Opportunity for involvement in contribution of ideas and knowing that they will be considered.
- 5. <u>Continuous Academic and Social Growth</u>. Each person needs to develop additional academic, social, and physical skills, knowledge, and attitudes.
- 6. <u>Cohesiveness</u>. Quality of a person's feelings toward a school.
- 7. <u>School Renewal</u>. The school as an institution should develop improvement projects.
- 8. <u>Caring</u>. Every individual in the school should feel that some other person is concerned about him as a human being (Fox et al., 1974, pp. 7-8).

The <u>NASSP School Climate Survey</u>, part of the National Association of Secondary School Principals Comprehensive Assessment of School Environments (CASE), was developed by the NASSP Task Force on Effective School Climate. According to Halderson (1988), the instrument was generated from a comprehensive review of both school climate and effective schools literature as well as an analysis of existing climate instruments. The <u>NASSP School Climate Survey</u> collects data on 10 subscales regarding perceptions of: (1) Teacher-Student Relationships, (2) Security and Maintenance, (3) Administration, (4) Student Academic Orientation, (5) Student Behavior Values, (6) Guidance, (7) Student-Peer Relationships, (8) Parent and Community-School Relationships, (9) Instructional Management, (10) Student Activities.

From this brief overview of some of the major contributors toward the assessment of school climate, it can be seen that the analysis of school climate does indeed hold promise for relevant educational research. Parker (1980) stated that many aspects of the organizational environment are potentially relevant to learning and stressed the necessity for school administrators to strive for improvement in the climate of their schools. As Hunsaker (1978) noted, it is necessary for professionals to demonstrate positive attitudes when working with students if schools are to emerge with a positive climate for learning.

McLeod (1989) recognized that school climate is positively related to school effectiveness and that through a comprehensive assessment of school climate, including the identification of various stakeholders' perceptions, school officials can identify specific school-related problems. Identifying those areas and patterns of concern can provide a baseline from which to develop school improvement programs. Likewise, Howard, Howell, and Brainard (1988) noted that the assessment of the school's climate is one important step in the process of school improvement.

Effective schools share a number of characteristics. But one consistently rises to the top: a winning school climate. School improvement is a process, not an event. It is seldom orderly, often unpredictable. It usually occurs in stages. Each individual in a school can affect its climate. But by working together--through a `process' of school improvement--you can have an even greater effect (Sweeney, 1988, p. 5).

Sweeney concluded that teachers teach best and students learn and enjoy more in a positive, vital, and robust learning environment or climate. From this perspective, it is not surprising that there have been a number of studies which have specifically addressed the variable of school climate in relation to middle level educational issues.

Smith (1977) used a modified version of the <u>CFK Ltd.</u> <u>Profile</u> to assess differences in perceptions of school climate among administrators, teachers, and students in various junior high school settings. He found that administrators generally had a more favorable perception of school climate than did the teachers and that teachers responded more favorably than did the students. Smith also indicated that individuals in smaller schools had a more positive perception of school climate. Smith recognized that schools differ in many respects, but one of the discernable differences is the school climate. Evans (1975) administered the <u>Organizational Climate</u> <u>Descriptive Questionnaire</u> to teachers at 19 middle schools and 16 junior high schools in Ohio. He reported no significant differences between middle school faculties and junior high school faculties in their perceptions of school climate.

Crowder (1982) surveyed 167 middle schools randomly chosen from Oklahoma and its bordering states. The study examined the relationship between the level of implementation of middle school characteristics and the students' perceptions of school climate. The implementation of middle school characteristics was measured by an instrument developed for that particular study. Students' perceptions of school climate were measured by the <u>CFK Ltd.</u> <u>Profile</u>. Crowder found that middle school characteristics were related to school climate. Of the 55 hypotheses tested, 20 were found to be significant at the .05 level. Table I lists the significant relationships between the implementation of middle school characteristics and the students' perceptions of school climate.

If, in fact, it is the educational leader's task to maximize the potential for increasing student outcomes, and if the school climate is a determining factor in this process, it appears a necessity for the leader to determine which organizational characteristics facilitate this extremely critical segment of the child's education and incorporate them into the child's environment (Crowder, 1982, p. 9).

Draud (1980) conducted a study to determine if the grade organization of middle schools and junior high schools

TABLE I

SUMMARY OF SIGNIFICANT CORRELATION COEFFICIENTS IN CROWDER'S 1982 STUDY

Middle School Characteristics	Climate Factors
Developmental Skills Program Affective Aspects Recognition of Social Needs Enrichment/Exploratory Program Varied Instructional Materials Developmental Guidance Program Evaluation and Reporting	Opportunity for Input
Physical Aspects Varied Instructional Materials Developmental Guidance Program Community as a Resource	High Morale
Recognition of Social Needs Enrichment/Exploratory Program Developmental Guidance Program	Cohesiveness
Developmental Skills Program Varied Instructional Materials Community as a Resource	Trust
Affective Aspects Varied Instructional Materials	School Renewal
Physical Aspects	Respect
Varied Instructional Materials	Continuous Academic and Social Growth
Varied Instructional Materials	Caring

had any effect on students' and teachers' attitudes toward school. He found that middle school students showed more positive attitudes toward student-teacher relationships, student-administration relationships, and student participation than did junior high students. Middle school teachers showed more positive attitudes toward teacher salaries, teacher status, and community support. Junior high students had more positive attitudes regarding studentcounselor relationships, while junior high school teachers had more positive attitudes concerning rapport among fellow teachers and cooperation among curriculum areas. Draud concluded that his results showed no significant differences between junior high schools and middle schools.

Clemens (1983) surveyed 207 middle school and junior high school teachers regarding their attitudes toward their students. She found that middle school teachers were more concerned about the socio-emotional needs of the transescent but that there were no significant differences between their attitudes regarding the physical, intellectual, and overall developmental needs of the transescent.

Summary

The review of literature was focused upon: (1) the characteristics of the middle school student, (2) the philosophy and goals of the middle school concept, (3) the development of middle school characteristics and lists of essential elements, and (4) the role of school climate in educational research and specific middle school studies relating to school climate.

The middle school student, termed transescent in much of the literature, is between 10 and 14 years old and is often at an awkward stage of physical, emotional, and intellectual development. The transescent will change drastically during the middle school years, from a child to an adolescent. The physical changes of the middle school student are accompanied by emotional uncertainties and social needs. Intellectually, the transescent may or may not be ready to think at the formal stage of development, causing some to be bored and others to be frustrated by a standardized curriculum. Additional complications for the transescent are created by the social/moral dilemmas encountered in modern society. The staff of a successful middle school must address all of these issues if they are to truly serve the individual students.

From this concern for the students, and the perceived inability of the junior high school to meet their needs, a move to restructure the educational organization for the middle level student was begun in the 1960s. Leading middle school advocates developed programs and published books directed toward this restructuring. The middle school movement caught on and was in full swing throughout the 1970s and 1980s. The middle school concept was directed toward meeting the physical, emotional, intellectual, and social needs of the transescent while providing a smooth transition from elementary school to high school.

An important part of the middle school movement was the development and articulation of middle school characteristics by practitioners and researchers. The literature

devoted to middle level education abounds with lists of characteristics, elements, components, ingredients, and earmarks of successful schools. Common to many of these lists are such topics as transitional goals, guidance programs, flexible scheduling, exploratory programs, social and physical activities, staff development, and instructional strategies. These lists highlight the programmatic characteristics of middle schools which would effectively address the individual needs of the students.

The last focus of the review of literature was concerned with school climate and its role as an important element of educational research and reform. A genuine caring and concern for people will be evident in a successful middle school. Such a positive school climate is needed to support the growth of early adolescents in the social, emotional, physical and intellectual areas. On the other hand, effective middle school programs positively affect student and staff behavior and attitudes, which inevitably improve the overall school climate. The implementation of suggested middle school characteristics and the improvement of school climate could well be two sides of the same coin, both being needed in the development of a successful middle level educational program.

CHAPTER III

METHODS AND DESIGN

This study was conducted to determine the degree to which the middle school concept was being implemented by public school systems across the State of Oklahoma. A significant part of this study was devoted to the determination of the level of implementation of middle school practices as outlined by the professional literature and as measured by the <u>Middle School Practices Index</u>.

In addition, this study was designed to examine school climate among selected middle schools of Oklahoma. School climate is an area in which there may be sharp distinctions between more effective and less effective schools (Sweeney, 1988). According to Gottfredson and Hollifield (1988, p. 63), "School Climate . . . determines whether the school can achieve excellence or will flounder ineffectively."

Therefore, this study was designed to specifically address the following four research questions:

1. What is the current level of implementation of recommended middle school practices across the state of Oklahoma?

2. How does the current level of implementation of recommended middle school practices compare to the earlier

studies of Butler (1983) and Jennings (1985)?

3. Is there a significant difference in school climate, as perceived by teachers, in schools that have a higher level of implementation of recommended middle school practices as compared to schools that have a lower level of implementation?

4. What significant relationships exist between the levels of implementation of the 18 specific recommended middle school practices and the 10 areas of school climate?

Population and Sample

According to the <u>1989-90 Oklahoma Educational Directory</u> (Oklahoma State Department of Education, 1989), Oklahoma public school districts contained 156 schools identified as middle schools. This number included all schools with grades 5-6-7, 5-6-7-8, 6-7, 7-8, or 6-7-8, as listed in the directory, regardless of whether they were called middle schools or junior high schools. This number did not include any schools with the grade combinations 5-6, 7-8-9, or 8-9. Three accredited schools which were housed with, and shared administrators with, either the elementary or the high school in the district were excluded from the study. The remaining 153 middle schools in the State of Oklahoma constituted the population for this study.

Instruments

Two different instruments were used to collect data for this study. The level of implementation of selected middle school concepts was measured by the <u>Middle School Practices</u> <u>Index (MSPI) (Appendix B)</u>. The <u>NASSP School Climate Survey</u> (Appendix C) was used to identify perceptions of the school environment. Proper permission to use these instruments was obtained. Both of these instruments are described in this portion of the chapter.

The <u>MSPI</u> was developed by Riegle (1971) to determine the level of implementation of 18 basic middle school practices. Riegle's 18 middle school practices (Appendix A) were compiled through an extensive review of the literature and were submitted to a committee of middle school experts for suggestions and modifications. The instrument was then reviewed by a research consultant and validated for the purpose of Riegle's study (Jennings, 1985). The 18 characteristics measured by this instrument have continued to be supported by the professional literature as important and unique to the middle school philosophy of education.

The <u>MSPI</u> has been used extensively in middle school research since its initial development in 1971. Pook (1981) used the <u>MSPI</u> in a study of Colorado middle schools. To validate the instrument, he had it reviewed by four national experts. With slight revision, the questionnaire was judged to have a 0.70 point biserial correlation coefficient between school scores and expert judgment. Pook also reported the Hoyt estimate of reliability for the <u>MSPI</u> to be 0.90.

Butler (1983) used a modified version of the <u>MSPI</u> to survey all 93 middle schools then operating in Oklahoma. The modifications did not invalidate comparisons with other <u>MSPI</u> studies. Butler sent the <u>MSPI</u> to five middle school leaders in the Oklahoma-Arkansas Middle School Consortium for review and suggestions for modifications. The five experts did not recommend any modifications. Jennings (1985) also used the <u>MSPI</u> to survey all Oklahoma middle schools.

The NASSP School Climate Survey is part of the National Association of Secondary School Principals' Comprehensive Assessment of School Environments (CASE). This package was developed by the NASSP Task Force on Effective School Climate. The <u>NASSP School Climate Survey</u> is a relatively new instrument which asks each individual to "serve as an <u>informant</u> . . . in terms of what he or she believes <u>most people</u> hold to be true about that characteristic of the school's environment" (Halderson, 1988, p. 3). The <u>NASSP School Climate Survey</u> is used to collect data about perceptions on topics identified by 10 subscales.

<u>Teacher-Student Relationships</u>. Perceptions about the quality of the interpersonal and professional relationships between teachers and students.

<u>Security and Maintenance</u>. Perceptions about the quality of maintenance and the degree of security people feel at the school.

Administration. Perceptions of the degree to which school administrators are effective in communicating with different role groups and in setting high performance expectations for teachers and students.

<u>Student Academic Orientation</u>. Perceptions about student attention to task and concern for achievement at school.

<u>Student Behavior Values</u>. Perceptions about student self-discipline and tolerance for others.

<u>Guidance</u>. Perceptions of the quality of academic and career guidance and personal counseling services available to students.

<u>Student-Peer Relationships</u>. Perceptions about students' care and respect for one another and their mutual cooperation.

Parent and Community-School Relationships. Perceptions of the amount and quality of involvement in the school by parents and other community members.

<u>Instructional Management</u>. Perceptions of the efficiency and effectiveness of teacher classroom organization and use of classroom time.

<u>Student Activities</u>. Perceptions about opportunities for and actual participation of students in school-sponsored activities (Halderson, 1988, p. 3).

According to Halderson (1988), the instrument was generated from a comprehensive review of both the climate and effective schools literature and an analysis of existing climate instruments. The survey instrument was refined through a series of national pilot tests and normative studies. The average internal consistency reliability of the climate subscales was reported to be 0.81. The task force "placed great emphasis on scale and item conceptualization" and used "exploratory and confirmatory factor analysis in field testing" (p. 3) to support strong content and construct validity for the climate instrument.

Data Collection and Analysis

The MSPI (Appendix B) was mailed to the principals of the aforementioned population of 153 accredited middle schools in Oklahoma. The survey was accompanied by a selfaddressed, stamped envelope and with a cover letter (Appendix D) explaining the nature of the study and the confidentiality of the participants. Responses to the first mailing were received from 91 principals. A second request (Appendix D) for participation was mailed to those principals who had not responded. An additional 26 surveys were returned, bringing the total number of returned surveys to 117, representing 77% of the total population of middle schools. Three returned surveys were not completed and thus were discarded. The final number of respondent schools was thus 114, representing 75% of the population.

Responses to the MSPI questions were scored according to the specifications set forth by Riegle. The mean of means for each of the 18 middle school principles was determined by summing the scores of the questions on each characteristic. Percentages were computed for each characteristic, and a total composite score was determined for each school. Schools were ranked according to the total MSPI score. The top 10% of the sample (12 schools) were identified as the high level of implementation schools, and the bottom 10% of the sample (12 schools) were identified as the low level of implementation schools. The principals of these "high" and "low" schools were contacted to see if they would be willing to allow their faculties to participate in the school climate portion of the study. Of the identified schools, all 12 in the high group and 10 of the 12 in the low group agreed to participate in the school climate portion of this study.

The NASSP School Climate Survey forms (Appendix C) were either mailed or hand delivered to all of the participating schools. Specific instructions and guidelines for administering the instrument were delivered along with the forms. Principals were encouraged to have their faculty members complete the surveys during a regular faculty meeting. Completed surveys were received from all 12 of the high group schools and 9 of the 10 low group schools.

The returned surveys were scored according to the specifications outlined in the NASSP Examiner's Manual. The process involved generating subscale raw scores, determining subscale standard scores, and plotting group summaries and profiles.

The data from the two instruments were analyzed with an IBM personal computer using the SYSTAT computer program. Using the DATA and EDIT modules, subscale scores for the two instruments were generated for each school. The descriptive information gathered during the <u>MSPI</u> survey (i.e. student population, number of teachers, number of administrators) was also programmed into the computer.

From this data set, statistical procedures using the STATS (Univariate Statistics) module were used to analyze and compare mean scores on the <u>MSPI</u> and the school climate surveys. A T-statistic and related probability score were generated for the school climate subscales by sorting the schools by high and low groups according to their <u>MSPI</u> scores and using the STATS module with the STATISTICS / TUKEY command. A Pearson's correlational and probability analysis was computed on the possible relationships between the 18 <u>MSPI</u> characteristics and the 10 subscales of the <u>NASSP School Climate Survey</u> by using the CORR (Correlations) module with the PEARSON (variable-variable) / PROB command.

CHAPTER IV

FINDINGS OF THE STUDY

This study was designed and conducted with the intent of examining the current status of the middle school movement in the State of Oklahoma. The collected data and the resulting analysis are provided in this chapter.

The chapter begins with a review of descriptive information concerning Oklahoma's middle level schools. This information was derived from the 1989-90 Oklahoma Educational Directory and from the information sheet which accompanied the MSPI questionnaire. The second portion of the chapter contains a presentation and analysis of the data gathered via the MSPI concerning the current level of implementation of 18 recommended middle school practices. These data were used to compare the current level of implementation of middle school practices to those presented in earlier studies and as a framework for examining teachers' perceptions of school climate within the middle school setting. The last phase of the presentation and analysis of data is focused on the identification of significant relationships which might exist between the 18 recommended middle school practices and the 10 school climate subscales.

Descriptive Information

According to the <u>1989-90 Oklahoma Educational</u> <u>Directory</u>, there were 153 accredited schools which met the definition of a middle school, that being a school which included at least two consecutive grades in the sixth through eighth sequence and which contained no grades lower than grade five or higher than grade eight. The organizational structures of these schools fell into five categories, as shown in Table II for both the 153 schools in the population and for the 114 respondent schools. The discrepancy between the two sets of figures can be explained by the fact that there are several schools which are accredited by the state for grades 6-8, but whose middle level grades were found to actually be organized 5-6-7-8.

TABLE II

GRADE ORGANIZATIONS OF OKLAHOMA MIDDLE SCHOOLS

Grades	All Middl	e Schools	Respondent	Schools
	Number	Percent	Number	Percent
6-7-8	121	79.1	84	73.7
7-8	24	15.7	14	12.3
5-6-7-8	3	2.0	14	12.3
6-7	4	2.6	1	0.9
5-6-7		0.7	1	0.9
Totals	153	100.1	114	100.1

Middle schools are located within school districts of all sizes across the State of Oklahoma. The K-12 enrollment of districts which included middle schools ranged from 300 to 42,000. As shown in Table III, most of Oklahoma's middle schools are located in relatively small districts, with 33% of the schools operated in districts with less than 1,000 students and 34% in districts with 1,000 to 1,999 students. While these schools represented 67% of the total respondent schools, they enrolled only 43% of the students. The remaining one third of the respondent schools housed 57% of the students. Oklahoma's two largest school districts, Oklahoma City and Tulsa, accounted for all of the respondent middle schools from districts with 10,000 to 20,000

TABLE III

District Enrollment	Middle Schools		Middle School Students		Average Middle School
	No.	%	No.	%	Enrollment
less than 1,000	37	33	6,654	15	182
1,0001,999	39	34	12,570	28	322
2,0003,999	10	9	4,950	11	495
4,0009,999	7	6	4,967	11	710
10,000-19,999	8	7	6,753	15	844
20,000 or more	_13_	_11_	8,998	_20_	692
Totals	114	100	44,892	100	394

DISTRIBUTION OF RESPONDENT MIDDLE SCHOOLS BY DISTRICT SIZE AND AVERAGE ENROLLMENT

students were located in either Tulsa or Oklahoma City suburban school districts.

Table IV contains additional descriptive data representative of Oklahoma middle schools. The data were gathered from the information sheet which accompanied the <u>MSPI</u> survey. The average respondent school district had 6,760 students, but the median enrollment was only 1,400 students, once again stressing that most of Oklahoma's middle schools are from relatively small districts. The middle schools ranged in enrollment from 94 students to 1,057 students, with the average school having 394 students.

TABLE IV

		ange m Maximum	Mean	Median
District Enrollment	300.0	42,000.0	6,760.5	1,400.0
Middle School Enrollment	94.0	1,057.0	393.8	347.5
Number of Teachers	7.0	70.0	25.6	22.5
Students per Teacher	5.2	25.4	15.2	15.2
Number of Counselors	0.0	3.0	1.2	1.0
Students per Counselor	105.0	762.0	333.0	340.5
Number of Administrators	0.5	3.0	1.4	1.0
Students per Administrator	94.0	525.0	,266.3	252.0

ENROLLMENT AND STAFFING OF RESPONDENT MIDDLE SCHOOLS

Data concerning the administrative and instructional staff is also provided in Table IV. The number of teachers in respondent middle schools ranged from 7 to 70, with a mean of 25.6 and a median of 22.5. The number of students per teacher had a range of 5.2 to 25.4. The data relating to counselors is especially pertinent since both the recommended middle school practices and the school climate indicators have strong ties to guidance programs and activities. Of the 114 schools, 14 (12%) had no counselor and another 14 (12%) reportedly had a part-time counselor. For those schools with counselors, the student-counselor ratio ranged from 105 to 762 (a half-time counselor for 381 students). The average student-counselor ratio was 333 students per counselor. Nearly one half of the schools (48%), with student populations ranging from 105 to 600, had just one counselor while 24 schools (21%) had two counselors. These schools had student populations ranging from 350 to 1,050. Seven percent of the schools, with populations ranging form 480 to 1,057, each had three counselors on the middle school staff.

In regard to the administration of the respondent Oklahoma middle schools, over half of the schools had one full-time principal while an additional one third reported having two administrators. The middle school enrollments of those schools with one administrator ranged from 94 to 465 while those schools with two administrators ranged from 260 to 1,050. Only one school with two administrators had fewer

than 400 students. As indicated in Table IV, the average number of administrators per school was 1.4 with an average student-administrator ratio of 266 to 1.

A typical middle school in Oklahoma, if such an institution really existed, would more than likely be part of a school district of approximately 1,400 students in a small town setting. It would consist of grades 6-7-8 and would have a student enrollment of approximately 350 students. There would be 22 teachers, 1 counselor, and a principal, possibly with a half-time assistant.

Implementation of Recommended Practices

The <u>MSPI</u> was designed to measure the level of implementation of 18 recommended middle school practices. This section of the chapter contains a description and analysis of the data gathered via this instrument regarding middle schools in Oklahoma. The 18 practices are listed in Appendix A. The key words which will be used to refer to the different 18 practices throughout this chapter are presented in Table V. Scores for the <u>MSPI</u> are computed as mean percentages, allowing for comparisons of schools with different grade organizations. The current level of implementation for each practice is also shown in Table V.

The results of the survey showed that the level of implementation of recommended middle school practices in the State of Oklahoma is low. The mean percentage scores for the individual practices ranged from a low of 16.37 for

TABLE V

,

CURRENT LEVEL OF IMPLEMENTATION OF 18 MIDDLE SCHOOL PRACTICES IN OKLAHOMA

Middle School Practices	Mean Percentage
Continuous Progress	40.02
Multi-Material	64.09
Flexible Schedule	28.76
Social Experiences	53.26
Physical Experiences	54.73
Intramural Activity	25.75
Team Teaching	22.67
Planned Gradualism	16.37
Exploratory and Enrichment	44.69
Guidance Services	54.39
Independent Study	38.03
Basic Learning Skills	56.99
Creative Experiences	31.74
Student Security	55.71
Evaluations	58.40
Community Relations	35.49
Student Services	61.64
Auxiliary Staff	40.47
Total <u>MSPI</u>	43.51

Planned Gradualism to 64.09 for Multi-Material. The mean of the 18 individual percentage scores was 43.51, showing that as an at-large group Oklahoma middle schools revealed implementation of the recommended practices at less than half of the level considered to constitute full implementation.

Those practices in which Oklahoma scored the lowest included Planned Gradualism (16.37), Team Teaching (22.67), Intramural Activity (25.75), Flexible Scheduling (28.76), and Creative Experiences (31.74). The extremely low score for Planned Gradualism illustrates that, in general, Oklahoma middle schools do not address the need for gradual, planned transition from elementary school to high school. Of the 114 respondent schools, 74 schools (63%) reported a zero level of implementation and another 26 schools (23%) reported an implementation level of less than 35%. Most schools reported a completely departmentalized educational program for all grades, whereas a program that moves from a largely self-contained to a partially departmentalized program is recommended.

Oklahoma's low scores in Team Teaching and Flexible Scheduling are directly related to this characteristic. A total of 57 schools (50%) scored zero on Team Teaching, while only 19 schools (17%) revealed a mean percentage score above 50. Therefore, the team teaching concept allowing for students to interact with a variety of teachers in an integrated curriculum is practically non-existent within

many of the middle schools of Oklahoma. Likewise, the use of flexible scheduling, such as short time modules controlled by teachers or of block time designated for subject-integrated teaching teams, is not evident in Oklahoma middle schools. Since most of the middle schools are completely departmentalized, the master schedule consists of rigid time periods for specific classes. Of the 114 respondent schools, 100 (89%) scored less than 50 on Flexible Scheduling.

Intramural Activities was another area of very low implementation. Responses to the MSPI items addressing this practice generally required a choice between intramural and interscholastic sports. As evidenced by the low mean percentage score of 25.75 for Intramural Activities, the emphasis in many Oklahoma middle schools is on interscholastic sports. In fact, of the 114 respondent schools, 44 (39%) reported no implementation of intramural activities and another 26% of the schools scored less than 30% on this practice. Generally speaking, middle school students in Oklahoma do not have the opportunity to participate in organized team activities except within the realm of competitive, interscholastic athletics, even through intramural activities have consistently been advocated as a must if a middle school program is to successfully neet the needs of all of its students.

Another one of the State's lower scoring areas was Creative Experiences. The total mean percentage score of 31.74 represents an implementation level equivalent to approximately one third of that recommended. Oklahoma middle schools are lacking in programs designed to provide middle school students with the opportunities to express themselves through creative, student-created and studentdirected activities such as student newspapers, drama and musical productions, and talent shows.

The middle schools of Oklahoma scored mean percentages between 35 and 50 on five of the practices measured by the <u>MSPI</u>. Regarding Community Relations, the score of 35.49 represents a moderately low implementation level of programs which should include community service projects, an active parents' organization, and an efficient informational network. The respondent schools scored 40.47 on the practice of Auxiliary Staffing, indicating a higher, but still low, level of utilization of diversified personnel such as paid paraprofessionals, teacher aides, parent volunteers, and student aides within the middle school programs across the state.

Also falling into this range of scores were the practices of Independent Study (38.03), Continuous Progress (40.02), and Exploratory and Enrichment Studies (44.69). These areas are to some extent related to each other in that they are all influenced by how well the middle school program addresses the individual interests and academic progress of its students. These relatively low scores indicate that the middle school programs across the state do not provide students with the individualized attention represented by a full implementation of these recommended middle school practices.

Eight practices measured by the <u>MSPI</u> instrument had mean percentage scores between 50 and 65. Although these are the practices on which the middle schools of Oklahoma scored the highest, they represent implementation at only one half to two thirds of the recommended levels. These eight practices include Social Experiences (53.26), Guidance (54.39), Physical Experiences (54.73), Security (55.71), Basic Learning Skills (56.99), Evaluation (58.40), Student Services (61.64), and Multi-Materials (64.09).

Regarding Social Experiences, middle school programs across the state produced a moderately high score. Factors which influenced this score include staff sponsorship of clubs, student participation in club activities, and school practices regarding dances and other social activities.

Middle school practices regarding Guidance also produced a moderately high score. This middle school practice takes into account the availability of guidance personnel to students, the development of group guidance activities, and the manner in which the counselors work with the teachers in providing guidance skills. The total mean percentage score of 54.39 was indicative of the fact that 40 of the sample schools had Guidance scores in the moderately high range and an additional 31 schools produced scores in the high range, including 9 schools that had

implementation levels of 100%.

The middle schools across the state also did relatively well in implementing those practices represented by the Physical Experiences items on the <u>MSPI</u> survey. Having physical education programs available to all students generated a major portion of the implementation level of 54.73% regarding this practice. Higher implementation scores could have been produced by having more individualized physical education instruction and by stressing both the developmental and competitive aspects of physical education.

The Student Security characteristic was designed to measure middle school practices directed toward providing each transescent with a teacher who relates to that student in a knowing and positive manner and with a supportive peer group that meets regularly. The mean percentage score of 55.71 was one of the higher scores of the 18 characteristics measured.

The Basic Learning Skills implementation level of 56.99 illustrated a moderately successful attempt by Oklahoma middle school educators to address specific problems in the basic skills development of their students. This recommended middle school practice was implemented to a greater degree than were other practices directed toward the individual needs and academic progress of students, such as Continuous Progress, Independent Study, and Exploratory and Enrichment. Only 14 sample schools had an implementation level in the low range under 35%. This practice is similar to Student Services, in that many of the practices it attempts to measure are required by state and federal regulations concerning special education and remedial programs. Thus the higher score may not be as much indicative of implementing <u>recommended</u> middle school practices as it is of implementing <u>mandated</u> programs.

The Evaluation scores of the 114 respondent schools produced a mean percentage score of 58.40, making it the third highest <u>MSPI</u> sub-score. Even though it is one of the more successfully implemented practices, it still does not represent a high level of implementation of middle school practices. An example of Evaluation would be the regular use of parent-teacher-student conferences to evaluate student progress on an individualized basis.

Student Services was another area of relatively high scores for the respondent schools. With a mean percentage score of 61.64, this was the second highest total score of the 18 MSPI sub-scores. This practice was determined by only one item on the survey, in which principals identified certain specialized services available to their students. These services included those provided by guidance counselors, school nurses, school psychologists, speech therapists, special reading teachers, special education teachers, diagnosticians, and visiting teachers. Many of these services are generally required by state or federal regulations for most schools, making it difficult for any school to not have a relatively high level of implementation for this practice.

Of the 18 practices measured by the <u>MSPI</u>, Oklahoma middle schools scored the highest on the Multi-Materials practice. Only 17 of the 114 respondent schools scored below 50% on this practice, while 55 schools had mean percentage scores above 65. Based upon these scores, teachers in the middle schools across the State of Oklahoma had easy access to instructional materials and supervised classroom activities designed around materials other than the basic textbooks. Oklahoma middle schools were reported to have ample numbers of volumes and a variety of instructional materials in their media centers which were frequently supervised by certified librarians. These characteristics produced a total mean percentage score of 64.09 for this practice.

Comparison of Implementation Levels

A second goal of this study was to determine what changes, if any, had been made in the degree to which the middle schools of Oklahoma have incorporated recommended practices into their programs. Earlier studies by Butler in 1983 and Jennings in 1985 had involved middle schools from across the state and had used the <u>MSPI</u> as the data gathering instrument. Table VI compares the mean scores obtained by those earlier studies with the scores in this current study.

TABLE VI

Middle School Practice	Butler 1983* (n = 69)	1985	1991
Continuous Progress	50.00	49.00	40.02
Multi-Material	64.00	66.75	64.09
Flexible Schedule	20.00	25.31	28.76
Social Experiences	49.00	54.24	53.26
Physical Experiences	57.00	56.19	54.73
Intramural Activity	33.00	26.95	25.75
Team Teaching	19.00	18.93	22.67
Planned Gradualism	19.00	11.33	16.37
Exploratory and Enrichment	34.00	42.92	44.69
Guidance Services	75.00	64.08	54.39
Independent Study	41.00	32.18	38.03
Basic Learning Skills	56.00	54.44	56.99
Creative Experiences	40.00	38.47	31.74
Student Security	46.00	55.87	55.71
Evaluations	40.00	44.00	58.40
Community Relations	33.00	36.43	35.49
Student Services	75.00	63.88	61.64
Auxiliary Staff	44.62	42.28	43.51
Total <u>MSPI</u>	44.62	42.28	43.51

COMPARISON OF CURRENT <u>MSPI</u> MEAN PERCENTAGE SCORES WITH THOSE FROM EARLIER OKLAHOMA STUDIES

* Except for the Total <u>MSPI</u> score, the 1983 scores were given in whole numbers. As the data in Table VI indicate, there has been very little change in the overall implementation of recommended practices in the middle school programs of Oklahoma during the past eight years. This is especially evident by comparing the total <u>MSPI</u> scores of 44.62, 42.28, and 43.51. While there have been some changes within the specific practices, the overall pattern has remained relatively constant in the years between the different studies.

Of the 18 practices measured by the <u>MSPI</u>, 9 had experienced very little change in their mean percentage scores from 1983 until 1991. These practices that changed very little over the eight-year period include Multi-Material, Social Experiences, Physical Experiences, Team Teaching, Planned Gradualism, Independent Study, Basic Learning Skills, Community Relations, and Auxiliary Staff. Three of these practices did, however, show a "rollercoaster" effect. Planned Gradualism, Independent Study, and Auxiliary Staff each dropped 8 to 10 points between 1983 and 1985 and then rose 5 or 6 mean percentage points between 1985 and 1991.

Oklahoma middle schools registered a decline in the degree of implementation for five of the practices. A slight but steady drop of 5 percentage points was recorded for Intramural Activity, and a drop of just over 8 percentage points accompanied the scores for Creative Experiences. The score for Continuous Progress stayed steady for the first two surveys, but dropped 9 points by

the current survey. A steady decline accompanied the practice of Student Services as it fell from 75.00 in 1983, to 63.88 in 1985, and then to 61.64 in 1991. The largest change in any of the practices occurred in Guidance Services as it dropped 20.6 points between 1983 and 1991.

Noticeable gains were made in four areas. A steady increase in the scores associated with Flexible Schedule resulted in a net gain of 8.8 percentage points. Similar percentage increases were noted for Exploratory and Enrichment (10.7) and Student Security (9.7). The only substantial increase registered between 1983 and 1991 accompanied the practice of Evaluation, for which the implementation level from 40% in 1983, to 44% in 1985, and then to 58.4% in 1991, for a total increase of over 18 percentage points.

While it is interesting to note these specific changes, the overall picture illustrates that actually very little change has occurred in Oklahoma concerning the implementation of the middle school concept. The total <u>MSPI</u> scores for the three surveys were in the low implementation level, all clustered around 43% for the recommended practices. On those practices for which the middle schools of Oklahoma scored very low in 1983 and in 1985, such as Flexible Schedule, Intramural Activity, Team Teaching, and Planned Gradualism, they continued to score very low in 1991. Likewise, on those characteristics for which the Oklahoma middle schools fared better during the earlier

surveys, such as Multi-Material, Physical Experiences, Basic learning Skills, and Student Services, they continued at similar levels in 1991.

Measurements of School Climate

Another goal of this study was to determine if there was a significant difference in school climate, as perceived by teachers, between schools that had a higher level of implementation of recommended middle school practices and schools that had a lower level of implementation. The identification of the high and low schools was determined by their composite <u>MSPI</u> scores, with the highest and lowest 10% of the respondent schools being selected to participate in the school climate portion of this study.

The MSPI mean percentage scores for the high and low groups of schools are presented in Table VII. The group of schools representing the high level of implementation of recommended practices had an average <u>MSPI</u> score of 62.55, compared to an average score of 27.26 for the low group of schools. The high group of schools produced implementation levels of greater than 65% for 9 of the practices and scored below the 50th percentile on only 4 practices. The group of high implementation levels schools did very well on the practices of Continuous Progress, Multi-Material, Guidance Services, Student Security, and Student Services. The low level of implementation schools revealed implementation levels below one third of that possible for 10 of the 18

TABLE VII

COMPARISON OF THE <u>MSPI</u> SCORES FOR THE HIGH AND LOW IMPLEMENTATION LEVEL SCHOOLS

Middle School Practices	Implementation High	Level Schools Low
Continuous Progress	80.83	30.11
Multi-Material	78.00	51.33
Flexible Schedule	39.75	16.56
Social Experiences	62.92	42.22
Physical Experiences	69.67	46.22
Intramural Activity	47.17	2.33
Team Teaching	61.58	0.00
Planned Gradualism	30.67	0.00
Exploratory and Enrichment	69.33	37.78
Guidance Services	70.67	40.11
Independent Study	50.00	18.22
Basic Learning Skills	53.33	40.89
Creative Experiences	65:42	12.22
Student Security	70.08	23.78
Evaluations	63.33	41.78
Community Relations	60.67	18.89
Student Services	84.58	53.00
Auxiliary Staff	67.92	15.56
Total <u>MSPI</u>	62.55	27.26

practices. Very low scores accompanied the low group for the practices of Flexible Schedule, Intramural Activity, Team Teaching, Planned Gradualism, Creative Experiences, and Auxiliary Staff. The high group of schools had implementation levels of at least 50 percentage points higher than the low group for four practices: Continuous Progress, Team Teaching, Creative Experiences, and Auxiliary Staff.

The group profiles of the teachers' perceptions of school climate for both the low and high implementation level schools are presented in Figure I. Figure I shows the specific data obtained from this study plotted on a reproduction of the sample printout provided in the <u>CASE</u> <u>Examiner's Manual</u>. As indicated by the visual, both groups of schools scored very close to the national norm on all ten subscales. The high group of schools scored higher on seven of the ten school climate indicators, and less than one point separated the two groups on the other three scores.

The mean scores and standard deviations for the ten school climate subscales for both the low and high implementation level schools are presented in Table VIII. The school climate subscale scores for the low group of schools ranged from 47.67 for Student Behavior Values to a high of 52.11 for Security and Maintenance. Only one of the ten subscale scores for the low group of schools was substantially above the national norm of 50. The climate



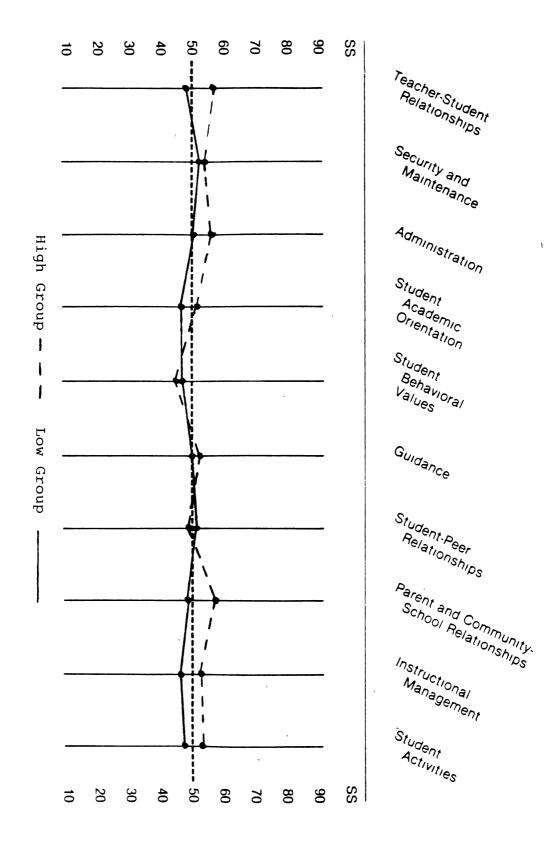


TABLE VIII

COMPARISON OF TEACHERS' PERCEPTIONS OF SCHOOL CLIMATE FOR HIGH AND LOW <u>MSPI</u> IMPLEMENTATION LEVEL SCHOOLS

School Climate Subscales	Implem High (n		Level Schools Low (n = 9)		
	Mean	SD	Mean	SD	t-Score
Teacher-Student Relationships	54.92	4.14	49.78	5.97	-2.33 *
Security and Maintenance	51.25	8.74	52.11	6.03	-0.25
Administration	54.42	7.00	50.11	5.23	-1.55
Student Academic Orientation	50.58	6.97	47.67	6.48	-0.98
Student Behavior Values	46.83	4.53	47.67	3.74	-0.45
Guidance	51.42	5.35	50.11	4.62	-0.59
Student-Peer Relationships	49.58	5.98	50.44	5.36	-0.34
Parent and Community-School Relationships	55.42	6.11	49.11	4.83	-2.55 *
Instructional Management	51.50	6.60	47.22	3.31	-1.78
Student Activities	51.08	3.78	48.56	4.22	-1.44

* Significant at the .05 level.

subscale scores for the group of schools scoring higher on their level of implementation of middle school practices ranged from a low of 46.83 for Student Behavior Values to a high of 55.42 for Parent and Community-School Relationship. Only Student Behavior Values (46.83), which measures teachers' perceptions about student self-discipline and tolerance for others, was under the national norm.

Although the high group of schools had scored higher on seven of the subscales, the differences for only two of the indicators proved to be statistically significant. A significant difference was noted at the .05 level for the subscales of Teacher-Student Relationships and for Parent and Community-School Relationships.

Correlations Between Middle School Practices and School Climate Indicators

The last data analysis pertaining to this study was designed to determine if significant relationships existed between the levels of implementation for recommended middle school practices and the indicators of school climate. A correlational analysis involving the 18 middle school practices measured by the <u>MSPI</u> and the 10 subscales of the <u>NASSP School Climate Survey</u> was conducted. The statistical analysis identified 19 significant relationships between the recommended middle school practices and the school climate indicators. Table IX presents a summary of these identified significant relationships.

TABLE IX

SUMMARY OF SIGNIFICANT RELATIONSHIPS BETWEEN MIDDLE SCHOOL PRACTICES AND SCHOOL CLIMATE INDICATORS

Middle School Practices	r	P	School Climate Indicators
Continuous Progress	.425	.055	Parents and Community- School Relationships
Social Experiences	.521	.015	Instructional Management
Exploratory & Enrichment	.598	.004	Teacher-Student Relationships
	.542	.011	Administration
	.434	.050	Guidance
	.677	.001	Parents and Community- School Relationships
	.517	.016	Instructional Management
Guidance	.468	.032	Guidance
Creative Experiences	.725	.001	Teacher-Student Relationships
	.654	.001	Administration
	.658	.001	Student Academic Orientation
	.705	.001	Parent and Community- School Relationships
v	. 538	.012	Instructional Management
Evaluation	.430	.052	Teacher-Student Relationships
	.478	.028	Administration
	.500	.021	Parent and Community- School Relationships
	.478	.028	Instructional Management
	.448	.042	Student Activities
Auxiliary Services	. 583	.006	Parent and Community- School Relationships

Of the 18 recommended middle school practices, 7 had statistically significant relationships with the indicators of school climate. Three practices, Exploratory and Enrichment, Creative Experiences, and Evaluation, were each significantly related to five school climate indicators. The other four middle school practices, Continuous Progress, Social Experiences, Guidance, and Auxiliary Services, were each related to one school climate indicator.

Of the 10 school climate indicators, 7 had significant correlation coefficients when compared with the middle school practices. Parent and Community-School Relationships was significantly related to five of the middle school practices, followed by Instructional Management which had significant relationships with four of the middle school practices. Two of the school climate indicators, Teacher-Student Relationships and Administration, had significant correlations with three of the recommended practices. The school climate indicator Guidance was related to two of the middle school practices, with the remaining two indicators showing significant relationships with only one middle school practice each.

Summary

The results of this study found the level of implementation of recommended middle school practices in the State of Oklahoma to be low. The respondent middle schools implemented the recommended middle school practices at a

level of 43.51 percent of what would be considered full implementation of the identified practices as measured by the <u>MSPI</u>. The mean percentage scores for the individual practices ranged from a low of 16.37 for Planned Gradualism to a high of 64.09 for Multi-Material.

There has been very little change in the overall implementation of recommended practices in the middle school programs of Oklahoma during the past eight years. Of the 18 practices measured by the <u>MSPI</u>, 9 experienced very little change, 5 registered a decline, and 4 had an increase in their mean percentage scores among the three studies. The greatest decline was registered for Guidance with a decrease of over 20 percentage points between 1983 and 1991. The largest increase was recorded for the practice of Evaluation with an increase of more than 18 percentage points in its implementation level. Other than these few exceptions, however, very little change has actually occurred in Oklahoma concerning the implementation of the middle school concept.

The examination of the differences between the perceptions of teachers from high level of implementation schools and teachers from low level of implementation schools regarding school climate produced some promising results. The high level of implementation schools scored higher on seven of the ten school climate indicators, while less than one point separated the two groups on the other three scores. A significant difference was noted at the .05 level for two subscales.

A correlational analysis identified 19 significant relationships between the recommended middle school practices and the school climate indicators. Seven of the 18 recommended middle school practices had statistically significant relationships with the indicators of school climate, while seven of the 10 school climate indicators had significant relationships with the middle school practices.

CHAPTER V

SUMMARY, CONCLUSIONS, RECOMMENDATIONS AND COMMENTARY

This final chapter of the study provides an overview of the entire process. The first portion contains a summary of the study, including purpose, design, and findings. Then, two separate sections are used to report the conclusions and recommendations that were derived from the findings. The final portion of the chapter contains a commentary which reflects on the current and future status of middle level education.

Summary

The middle school movement emerged in the 1960s from the criticism of the organizational structure and instructional program of the junior high school. The middle school concept provided alternatives to those characteristics of the junior high school which many educators perceived to be inappropriate for early adolescents. This philosophy, and the new organizational structure which accompanied it, was widely accepted across the country. The increase in the number of middle schools has been impressive. However, the actual implementation of

recommended middle school practices has not been as successful.

This study was designed to assess the current status of middle schools in Oklahoma. A significant part of this study was devoted to determining the level of implementation of middle school practices. This information was then used to compare the current level of implementation with levels identified in earlier studies. The second purpose of this study was to determine whether a relationship existed between the level of implementation of middle school practices and school climate. School climate is an area in which there have been found to be sharp distinctions between more effective and less effective schools. Therefore, this study was designed to specifically address the following four research questions.

 What is the current level of implementation of recommended middle school practices across the state of Oklahoma?

2. How does the current level of implementation of recommended middle school practices compare to the earlier studies of Butler (1983) and Jennings (1985)?

3. Is there a significant difference in school climate, as perceived by teachers, in schools that have a higher level of implementation of recommended middle school practices as compared to schools that have a lower level of implementation?

4. What significant relationships exist between the

levels of implementation of the 18 specific recommended middle school practices and the 10 areas of school climate?

Two different instruments were used to collect data for this study. The level of implementation of selected middle school concepts was measured by the <u>Middle School Practices</u> <u>Index</u>. The <u>MSPI</u> collects data relative to 18 identified recommended middle school practices. The <u>NASSP School</u> <u>Climate Survey</u> was used to identify teachers' perceptions of the school environment. This instrument produced standardized scores for 10 subscales.

The population for this study consisted of the 153 schools identified as middle schools by the 1989-90 Oklahoma Educational Directory. This number included all schools with grades 5-6-7, 5-6-7-8, 6-7, 7-8, or 6-7-8 as listed in the directory. The MSPI was mailed to the principals of the sample middle schools. Surveys were returned from 114 schools, representing 75% of the total population of middle schools. Two subgroups of respondent schools were then identified for the analysis of school climate. The 10% of the respondents (12 schools) which had scored highest on the MSPI were designated as the high level of implementation schools, and the lowest scoring 10% (12 schools) were labeled as the low level of implementation schools. The teachers of these schools were asked to complete the school climate survey. Completed surveys were received from all 12 of the high group schools and 9 of the 10 low group schools (The administration of two schools had declined to allow

such participation).

Current Level of Implementation

The results of the <u>MSPI</u> showed a relatively low level of implementation of recommended middle school practices in such schools in the State of Oklahoma. The mean percentage scores for the individual practices ranged from a low of 16.37 for Planned Gradualism to 64.09 for Multi-Material. The mean of the 18 individual percentage scores was 43.51, showing that the respondent schools, as a group, provided evidence that the recommended middle school practices had been implemented at less than one half of the possible level of implementation.

Comparison With Earlier Studies

There has been very little change in the overall degree of implementation of recommended practices in the middle school programs of Oklahoma during the past eight years. This is especially evident by comparing the total <u>MSPI</u> scores obtained by three studies. Butler (1983) found the level of implementation to register a mean percentage score of 44.62, while Jennings (1985) determined the total mean percentage to be 42.28. The current level of implementation was computed at 43.51.

Of the 18 practices measured by the <u>MSPI</u>, 9 had experienced very little change in their mean percentage scores. Oklahoma middle schools registered a drop in 5 of the practices, while noticeable gains were found in the 4 remaining practices. On those practices for which the middle schools of Oklahoma had scored very low in 1983 and 1985, they continued to score very low in 1991. Likewise, on those characteristics for which the Oklahoma middle schools had fared better during the earlier surveys, they continued to do better in 1991.

Measurements of School Climate

The school climate subscale scores for the low implementation group of schools ranged from 47.67 for Student Behavior Values to a high of 52.11 for Security and Maintenance, with 6 of the 10 subscale scores being slightly under the national norm of 50. The subscale scores for the group of schools scoring higher on their level of implementation of middle school practices ranged from a low of 46.83 for Student Behavior Values to a high of 55.42 for Parent and Community-School Relationship. Nine of the 10 subscale scores for this group were at or slightly above the national norm of 50. Only Student Behavior Values, which measures teachers' perceptions about student selfdiscipline and tolerance for others, was under the national norm.

Although the high group of schools had scored higher on seven of the subscales, on only two of the indicators were the differences found to be statistically significant. A significant difference was noted at the .05 level for the subscales of Teacher-Student Relationships and Parent and Community-School Relationships.

Significant Relationships

The analysis identified 19 statistically significant relationships between the recommended middle school practices and the school climate indicators. Of the 18 recommended middle school practices, 7 had statistically significant relationships with indicators of school climate. Three practices, Exploratory and Enrichment, Creative Experiences, and Evaluation, were each significantly related to 5 school climate indicators. Of the 10 school climate indicators, 7 were found to have significant correlation coefficients with middle school practices. Parent and Community-School Relationships was significantly related to 5 of the middle school practices and Instructional Management was found to have significant relationship to 4 of the middle school practices.

Conclusions

1. The middle school continues to be a popular organizational option for grades from five through eight. The number of middle schools continues to grow. However, there is a wide variance within statistics that attempt to describe such schools. There is very little uniformity among Oklahoma middle schools concerning both demographic characteristics and instructional programs. 2. The middle school programs found in Oklahoma exist more in name only than in the actual implementation of accepted middle school practices. As evident by the total <u>MSPI</u> mean percentage score of 43.51, Oklahoma middle schools do not display to a high degree the characteristics that have come to be commonly accepted as indicative of a true middle school program.

3. On a statewide basis, there has been virtually no change in the implementation level of recommended practices within the middle school programs during the past eight years. This is based upon the comparison of studies completed in 1983 and 1985 with this current study.

4. Middle school practices and school climate indicators are related. Whether the implementation of practices influences school climate or vice versa, there is a degree of commonality between the two conceptual entities. Of the 10 school climate indicators, 7 were found to be higher in the schools which had implemented middle school practices to a higher degree.

5. Positive relationships between the school and the community and between students and teachers are very important aspects of successful middle level programs. This was strongly indicated by the statistically significant scores in both the comparison of school climate indicators for high and low implementation level schools and the correlational analysis of middle school practices and school climate indicators.

103

6. Programs designed to specifically provide for a smooth transition from elementary school to high school are virtually nonexistent in the middle school programs of Oklahoma. This is evident by the extremely low mean percentage scores obtained for Planned Gradualism, Flexible Schedules, and Continuous Progress.

7. The middle school programs in Oklahoma do not incorporate curricular factors designed to address the individual needs of their students with a curriculum that emphasizes variety, student interests and student participation. This is evident by the low scores in the areas of Exploratory and Enrichment, Independent Study, and Creative Experiences.

8. The middle school programs of Oklahoma generally do not include intramural activities designed to provide students with the opportunity to participate in physical activities and to discover talents without the pressures of interscholastic sports, as evident by the mean percentage score of 25.75 for Intramural Activity.

Recommendations

This study was conducted with the intent to enhance the field of professional knowledge concerning the nature and quality of education for transescent learners. Directed toward this goal, the following recommendations are made for consideration by researchers and practitioners.

1. Studies should continue to be conducted which

identify successful middle school programs and then analyze the different components and recommended practices which exist within those schools. An indepth ethnographic study of this nature could possibly promote the middle school concept with positive examples of successful programs.

2. Related studies should be conducted which identify middle school programs that have been in existence for longer periods of time and then investigate the programs which exist within those schools. Since the number of middle schools continues to increase, many of the schools included in a statewide survey may not have been in existence for very long. The exclusion of these recently converted schools from a comparative study could provide more useful knowledge concerning changes in the implementation of middle school practices over a period of time.

3. Additional investigations of school climate and its relationship to middle level educational programs could prove to be most beneficial. Studies which include the perceived views of students, teachers, administrators, and parents would provide additional understanding of the possible relationships between school climate and middle level programs.

4. A middle school self-evaluation could be included in the annual accreditation report submitted by each school to the State Department of Education. This evaluation could be developed around the Middle School Regulations currently published in the <u>Administrators' Handbook</u>. The Philosophy and Purpose section and the Middle School Progress Criteria section address many of the recommended characteristics. Such an evaluation would provide administrators and other interested parties with more immediate information regarding the type and extent of implementation of recommended middle school practices.

5. As part of the requirements for receiving a middle school/junior high school endorsement on teaching certificates, the State Department of Education may need to require professional study or other training that would provide teachers with a better understanding of the needs of the transescent learner. Currently the endorsement is based solely upon completing a determined number of hours in a specific field of study and passing a competency test in that area.

6. The State Department of Education needs to review its grade organization criteria and develop new middle school standards which include all relevant grade organizations. Currently there is no accreditation per se for schools with grades 5-6-7-8 and 5-6-7, even though a few such schools are listed in the <u>Oklahoma School Directory</u>.

7. Colleges of Education need to provide courses which focus upon the unique characteristics of transescent learners and their educational needs. These should be incorporated within the teacher training and administrator training programs for those individuals who will eventually be certified to work with middle school students.

8. Practicing administrators need to assess the level of implementation of recommended practices at their particular schools and develop plans of action to address those practices most pertinent and of concern to their students and communities. Short-term goals might address those practices for which greater implementation will not require major revisions of the current curriculum. Longterm goals might involve those practices requiring major changes, for example in the master schedule and current curriculum. Community awareness and teacher inservice should be important aspects of any such plan of action.

9. School administrators and teachers must address the need for positive community relations as an important building block of a successful middle level program. A well-planned public relations program needs to be developed and implemented which not only encourages interaction among students, teachers, administrators, parents, and community members, but also serves as a mechanism for articulating the needs of middle school students and the goals of the school.

10. Administrators and teachers need to be involved in professional organizations committed to appropriate middle level education. Both the National Education Association and the National Association for Secondary School Principals have made strong commitments to middle level education. Along with the National Middle School Association, these organizations have a vast array of available materials and services which could greatly enhance professional understanding and clearer articulation of the middle school concept.

Commentary

This study has focused upon the status of the middle school movement in the State of Oklahoma, specifically addressing the implementation of recommended practices and their relationships to school climate. A couple of important points of interest need to be directed toward these central issues. First, it should be noted that not all of the 18 recommended middle school practices are unique to middle level education. In fact, such programmatic characteristics as multi-material approaches to instruction, guidance services for all students, appropriate evaluations of student progress, and effective community relations programs are vital to successful schools at any level. Unfortunately, those recommended practices which are unique to the middle school concept, such as flexible scheduling, intramural activities, planned gradualism from elementary school to high school, and cooperative or team teaching, are the ones of which the middle schools of Oklahoma have been the least successful in implementing.

Secondly, the analysis of school climate between high and low levels of implementation schools was somewhat limited by the range of <u>MSPI</u> scores produced by Oklahoma middle schools. There was not a strong representation of schools with high levels of implementation. Since statistical relationships were found in this study between the recommended practices and perceptions of school climate, these relationships could prove to be even more evident among middle level schools which have high levels of implementation of recommended practices.

This study has entailed a great deal of reading and thought concerning the educational possibilities for a group of students with unique characteristics and needs unlike any other student population found in our public schools today. But, as this study and others have concluded, for many of these students the middle school concept is still only a possibility. The middle school movement is well over 25 years old, and yet practices often continue as before. The organization of grades has changed, the names have changed, but the expectations of many of the people involved have not changed. This is true not only of teachers and administrators, but of students, parents, and community members.

Is change possible? The answer must be a resounding "yes" and there has been no greater opportunity than the present to participate in these changes. The future of the American educational system has recently become a major political concern at all levels. Such issues as dropout rates, declining test scores, latchkey students, economically and academically at-risk students, loss of local control, and inadequate educational funding have

109

brought the public schools to the forefront of public attention and debate. Maybe expectations are beginning to change. People are starting to see a need for their schools to change, a need for schools to more appropriately address the needs of their students. This is specifically true of the State of Oklahoma with the recent completion of the "Task Force 2000" report and adoption of legislation directed toward long-term school reforms. These reforms address such areas as innovative classroom activities, individual and group guidance programs, improving media centers, parent and student input in school policy-making, and overall community and school relationships. Yes, expectations are changing.

As expectations change, opportunities emerge. The task for educators is to fill the void with progressive ideas and innovations. The middle school concept provides a ready vehicle for such educational ideas, including these examples:

--An advisor-advisee or homeroom program designed to deliver guidance activities to students on a regular basis can easily include the drug awareness and AIDS education mandates placed upon schools today, as well as an unlimited number of guidance activities devoted to such topics as peer pressure, study habits, and student discipline.

--An interdisciplinary or "teaming" approach to the curriculum will make learning more meaningful and relevant for at-risk students, as well as for other students.

110

--Intramural programs, exploratory classes, and club activities designed to provide appropriate physical, academic, and social activities for students might improve students' interests in school and slow the subsequent dropout rate experienced by our public schools today.

In essence, educators must seize the opportunities which accompany the demands of society, the mandates of politicians, and the changing expectations of interested parties to begin and/or improve the middle level programs available to students. Administrators must take the leadership role in this endeavor. They are in positions from which to effectively articulate the goals and objectives of the middle school movement to staff and community, to obtain needed resources and commitments, to provide the necessary staff development activities, and to provide the long-range planning and foresight to make these opportunities become realities.

This is not just optimistic idealism. There already are districts within Oklahoma that have very good middle schools with unique programs designed to meet the needs of their transescent learners. Some of the schools surveyed and visited during this study have exemplary exploratory programs, excellent media centers, group guidance programs, organized intramurals, individual learning activities, effective staff development programs, and excellent community relations. One excellent middle school program is designed around the concept of "teaming", which involves a group of students assigned to a specific group of teachers who meet daily to plan interdisciplinary instructional units, discuss academic successes and failures, identify potential student problems, and develop cooperative guidance activities.

Yes, there are success stories to be found within the middle school programs of Oklahoma. But it will take some time and much effort before the benefits of the middle school movement can be shared by the majority of students attending middle level schools across the State of Oklahoma.

REFERENCES

- Alexander, W. M. (1968). The middle school movement. <u>Theory Into Practice</u>, 7 (3), 114-117.
- Alexander, W. M. (1971). How fares the middle school? <u>National Elementary Principal</u>, <u>51</u> (3), 8-11.
- Alexander, W. M. (1982). Reflections of William Alexander--A journal interview. <u>Middle School Journal</u>, <u>13</u> (2), 3-7.
- Alexander, W. M. (1988). Schools in the middle: Rhetoric and reality. <u>Social Education</u>, <u>52</u> (2), 107-109.
- Alexander, W. M., & George, P. S. (1981). <u>The exemplary</u> <u>middle school</u>. New York: Holt, Rinehart & Winston.
- Alexander, W. M., & Kealy, R. P. (1969). From junior high school to middle school. <u>The High School Journal</u>, <u>53</u> (3), 151-163.
- Alexander, W. M., & McEwin, C. K. (1989). Schools in the middle: Progress 1968-1988. <u>Schools in the middle: A</u> <u>report on trends and practices</u>, Reston, VA: National Association of Secondary School Principals.
- Alexander, W. M., Williams, E. L., Compton, M., Hines, V. A., Prescott, D., & Kealy, R. (1969). <u>The emergent</u> <u>middle school</u> (2nd ed.). New York: Holt, Rinehart & Winston.
- Anderson, C. S. (1985). The investigation of school climate. In G. R. Austin and H. Garber (Eds.) <u>Research on</u> <u>exemplary schools</u>, Orlando, FL: Academic Press.
- Aromi, E. J., Roberts, J. B., & Morrow, J. E. (1986). Model middle schools revisited. <u>Middle School Journal</u>, <u>17</u> (3), 10-12.
- Atkins, N. (1968). Rethinking education in the middle. <u>Theory Into Practice</u>, 7 (3), 118-119.
- Batezel, W. G. (1968). The middle school: Philosophy, program, organization. <u>Clearinghouse</u>, <u>43</u>, 487-490.

- Beane, J. A. (1983). Self-concept and esteem in the middle level school. <u>NASSP Bulletin</u>, <u>67</u> (486), 63-71.
- Beckman, V. G. (1978). A study to determine the current level of implementation of eighteen basic middle school principles in the state of Missouri (Doctoral dissertation, St. Louis University).
- Binko, J., & Lawlor, J. (1986). Middle schools: A review of current practices--How evident are they? <u>NASSP</u> <u>Bulletin</u>, <u>70</u> (491), 81-87.
- Bondi, J. (1972). <u>Developing middle schools: A guidebook</u>. New York: MSS Information Corporation.
- Brazee, E. N. (1983). Brain periodization--Challenge, not justification. <u>Middle School Journal</u>, <u>15</u> (3), 8-9, 30.
- Brimm, R. P. (1969). Middle school or junior high? Background and rationale. <u>NASSP Bulletin</u>, 53 (335), 1-7.
- Brooks, K. (1978a). The middle school--A national survey, Part I. <u>Middle School Journal</u>, <u>9</u> (1), 6-7.
- Brooks, K. (1978b). The middle school--A national survey, Part II. <u>Middle School Journal</u>, <u>9</u> (2), 6-7.
- Brown, W. T. (1981). The making of the middle school: Twenty-one key ingredients. <u>Principal</u>, <u>60</u> (3), 18-19.
- Butler, J. J. (1983). Teacher attitude, classroom climate, and the level of implementation of recommended middle school practices in Oklahoma (Doctoral dissertation, Oklahoma State University).
- Calhound, F. S. (1983). <u>Organization of the middle grades: A</u> <u>summary of research</u>. Arlington, VI: Educational Research Services.
- Caul, J. L. (1975). A comparative study of middle school practices recommended in the literature and practices of middle schools in South Carolina (Doctoral dissertation, University of South Carolina).
- Clemens, J. M. R. (1983). A comparative study of middle school and junior high school teachers' attitudes toward transescent needs (Doctoral dissertation, Indiana State University).
- Compton, M. F. (1968). The middle school: Alternative to the status quo. <u>Theory Into Practice</u>, 7 (3), 108-110.

- Crowder, J. W. (1982). A comparative study of the relationship between the level of implementation of middle school characteristics and students' perceptions of school climate (Doctoral dissertation, University of Tulsa).
- Csikszentimihalyi, M., & McCormack, J. (1986). The influence of teachers. <u>Phi Delta Kappan</u>, <u>67</u>, 415-419.
- Cuff, W. A. (1967). Middle school on the march. <u>NASSP</u> <u>Bulletin</u>, <u>51</u> (316), 82-86.
- Curtis, T. E., & Bidwell, W. W. (1970). Rationale for instruction in the middle school. <u>Educational</u> <u>Leadership</u>, <u>27</u>, 578-81.
- Draud, J. E. (1980). The organizational structure of middle schools and junior high schools and its effect on the attitude of teachers and students toward the school (Doctoral dissertation, University of Ohio).
- Eichhorn, D. H. (1966). <u>The middle school</u>. New York: Center for Applied Research in Education.
- Eichhorn, D. H. (1983). Focus on the learner leads to a clearer middle school picture. <u>NASSP Bulletin</u>, <u>67</u> (486), 45-48.
- Eichhorn, D. H. (1984). The nature of transescents. In J. H. Lounsbury (Ed.), <u>Perspectives: Middle school education.</u> <u>1964-1984</u> (pp. 30-37). Columbus, OH: National Middle School Association.
- Elkind, D. (1984). <u>All grown up and no place to go</u>, <u>Teenagers in crisis</u>. Reading, PA: Reading, PA.
- Epstein, H. T. (1977). A neuroscience framework for restructuring middle school curricula. <u>Transescence:</u> <u>The Journal of Emerging Adolescent Education</u>, <u>5</u> (1), 6-11.
- Epstein, H. T. & Toepfer, C. F., Jr. (1978). A neuroscience basis for reorganizing middle school education. <u>Educational Leadership</u>, <u>35</u>, 650-60.
- Evans, R. (1975). A comparison of the organizational climates of selected middle schools with junior high schools. <u>Middle School Journal</u>, <u>4</u> (4), 48.
- Ferguson, H. D. (1981). The principal as instructional leader. <u>Contemporary Education</u>, <u>52</u>, 162-165.

- Fox, R. S. (1973). <u>Diagnosing classroom learning</u> <u>environments</u>. Chicago: Science Research Associates.
- Fox, R. S., Boises, H. E., Brainard, E., Fletcher, E., Huge, J. S., Logan, C. J., Schmuck, R., Shaheen, T. A., & Stegeman, W. H. (1974). <u>School climate improvement: A</u> <u>challenge to the school administrator</u>. Bloomington, IN: Phi Delta Kappa.
- Gatewood, T. E. (1975). Toward a self-identity: The middle school and the affective needs of the emergent adolescent. <u>Middle School Journal</u>, <u>6</u> (1), 25-30.
- Gatewood, T. E., & Dilg, C. A., (1975). <u>The middle school</u> <u>we need</u>. Washington, D.C.: Association for Supervision and Curriculum Development.
- George, P. S. (1982). A response to Yoder: But we do need good middle level schools. Educational Leadership, 40 (2), 50-51.
- George, P. S., & Oldaker, L. L., (1985). <u>Evidence for a</u> <u>middle school</u>. Columbus, OH: National Middle School Association.
- Georgiady, N. P. & Romano, L. G. (1973). Do you have a middle school? <u>Educational Leadership</u>, <u>31</u>, 238-41.
- Georgiady, N. P. & Romano, L. G. (1977). Growth characteristics of middle school children: Curriculum implications. <u>Middle School Journal</u>, <u>8</u> (1), 12-15, 22-23.
- Georgiady, N. P., Riegle, J. D., & Romano, L. G. (1974). What are the characteristics of the middle school? <u>NASSP Bulletin</u>, <u>58</u> (381), 72-77.
- Gibson, John T. (1978). The middle school concept: An albatross? <u>Journal of Teacher Education</u>, <u>29</u> (5), 17-19.
- Gottfredson, G. D., & Hollifield, J. H. (1988). How to diagnose school climate: Pinpointing problems, planning change. <u>NASSP Bulletin</u>, <u>72</u> (506), 63-70.
- Gough, P. B. (Ed.). (1990). The quality school [Special issue]. <u>Phi Delta Kappan</u>, <u>71</u>, 424-496.
- Grooms, A. (1967). The middle school and other innovations. NASSP Bulletin, <u>51</u> (319), 158-166.
- Halderson, C. (1988). <u>Examiner's manual</u>, <u>Comprehensive</u> <u>assessment of school environments</u>, Reston, VA: National Association of Secondary School Principals.

- Halpin, A., & Croft, D. (1963). <u>The organizational climate</u> of schools. Chicago: University of Chicago Press.
- Hence, H. E. (1967). A review of the growth and development of the junior high school with proposals for modifications based upon studies of selected Pennsylvania school districts (Doctoral dissertation, Pennsylvania State University).
- Henry, M. L., Mitchell, R., O'Connell, W., Schmidt, D. J., Tietz R. W., & Whitten, J. (1981), What it's like in the middle. <u>Principal</u>, <u>60</u> (3), 26-29.
- Honig, B. (1988). Middle grade reform. <u>Social Education</u>, <u>52</u> (2), 119-120.
- Howard, E., Howell, B., & Brainard, E. (1988). <u>Handbook for</u> <u>conducting school climate improvement projects</u>. Bloomington, IN: Phi Delta Kappan.
- Howell, B. (1980). <u>The school in the middle--what's so</u> <u>special about it</u>? (Paper presented at 64th Annual Meeting of the NASSP, Miami Beach, FL).
- Hunsaker, J. S. (1978). A comparison of the organizational climates of selected middle schools and junior high schools (Doctoral dissertation, University of Wisconsin, Milwaukee).
- Inglis, A. (1918). <u>Principles of secondary education</u>. New York: Houghton Mifflin.
- Jennings, M. A. (1985). The current level of implementation of eighteen basic middle school characteristics in Oklahoma middle school programs (Doctoral dissertation, University of Oklahoma).
- Johnson, M. (Ed.). (1980). <u>Toward adolescence: The middle</u> <u>school years</u>, Seventy-ninth yearbook of the National Society for the Study of Education, Part I. Chicago: University of Chicago Press.
- Johnson, V. (1982). Myelin and maturation: A fresh look at Piaget. <u>Science Teacher</u>, <u>49</u> (3), 41-49.
- Keefe, J. W., Kelly, E. A., & Miller, S. K. (1985). School climate: Clear definitions and a model for a larger setting. <u>NASSP Bulletin</u>, <u>69</u> (484), 70-77.
- Kindred, L. W., Wolotkiewicz, R. J., Mickelson, J. M., Coplein, L. E. & Dyson, E. (1976). <u>The middle school</u> <u>curriculum: A practitioner's handbook</u>. Boston: Allyn & Bacon.

- Klingele, W. E. (1979). <u>Teaching in middle schools</u>. Boston: Allyn & Bacon.
- Koerner, T. F. (Ed.). (1983). The school in the middle [Special issue]. <u>NASSP Bulletin</u>, <u>67</u> (463), 1-82.
- Koerner, T. F. (Ed.). (1974). Schools in the middle [Special issue]. <u>NASSP Bulletin</u>, <u>58</u> (381), 1-116.
- Kramer, J. W. (1974). A study of middle school programs in California (Doctoral dissertation, University of Southern California).
- Lavenburg, F. M. (1963). An analysis of articulation problems of 7th and 8th grade students with implications for administrative action (Doctoral dissertation, Rutgers University).
- Lentz, D. W. (1956). History and development of the junior high school. <u>Teachers College Record</u>, 57, 522-530.
- Levy, T. (1988). Making a difference in the middle. <u>Social</u> <u>Education</u>, <u>52</u> (2), 104-106.
- Likert, R. (1967). <u>The human organization</u>. New York: McGraw-Hill.
- Lipsitz, J. S. (1979a). Adolescent development: Myths and realities. <u>Children Today</u>, <u>8</u>, 2-7.
- Lipsitz, J. S. (1979b). Growing up forgotten--must they? <u>Middle School Journal</u>, <u>10</u> (1), 3,24.
- Lipsitz, J. S. (1980). The age group. In M. Johnson (Ed.), <u>Toward adolescence: The middle school years</u> (pp. 7-31). Chicago: University of Chicago Press.
- Lipsitz, J. (1984). <u>Successful schools for young</u> <u>adolescents</u>. New Brunswick: Transaction Books.
- Lounsbury, J. H. (Ed.). (1984). <u>Perspectives: Middle School</u> <u>Education, 1964-1984</u>. Columbus, Ohio: National Middle School Association.
- Lounsbury, J. H. (1987). Moving the middle from the bottom to the top. <u>Middle School Journal</u>, <u>18</u> (1), 35.
- Lounsbury, J. H., & Vars, G. F. (1971). The middle school: Fresh start or new delusions? <u>National Elementary</u> <u>Principal, 51</u> (3), 12-19.
- McGlasson, M. (1973). The middle school: Whence? what? whither? <u>Phi Delta Kappa Yearbook No. 22</u>. Bloomington, IN: Phi Delta Kappa Educational Association.

- McLeod, C. R. (1989). Secondary school climate: Using an ecological perspective (Doctoral dissertation, University of Arizona).
- Mead, M. (1965). Early adolescence in the United States. NASSP Bulletin, 49 (300), 5-10.
- Merenbloom, E. Y. (1988). <u>Developing effective middle</u> <u>schools</u> (2nd ed.). Columbus, OH: National Middle School Association.
- Molitor, J. A., & Dentler, R. A. (1982). <u>Reorganizing the</u> <u>middle grades: Guidelines for administrators and</u> <u>practitioners</u>. Cambridge, MA: Abt Associates.
- Moss, T. C. (1969). Middle school. Boston: Houghton Mifflin.
- Moss, T. C. (1971). Characteristics of a good middle school. NASSP Bulletin, 55 (357), 71-72.
- National Middle School Association. (1977). Report of the NMSA committee on future goals and directions. <u>Middle</u> <u>School Journal</u>, <u>8</u> (4), 16
- National Middle School Association. (1982). <u>This we believe</u>. Columbus, OH: Author.
- Natoli, S. J. (Ed.). (1988). Making a difference in the middle [Special issue]. <u>Social Education</u>, <u>52</u> (2), 104-120.
- Oklahoma State Department of Education (1987). <u>Administrators' Handbook</u>. Oklahoma City, OK: Author.
- Oklahoma State Department of Education (1989). Oklahoma Educational Directory. Oklahoma City, OK: Author.
- Overly, D. E. (1972). <u>The middle school: Humanizing</u> <u>education for youth</u>. Washington, OH: Charles A Jones.
- Parker, W. P. (1980). Student's perceptions of school climate as assessed by the CFK Ltd. Profile and the Learning Environment Inventory: A concurrent validity study (Doctoral dissertation, University of Tulsa).
- Pook, M. E. P. (1981). A study of the relationship of teacher job satisfaction and the level of implementation of recommended middle school practices (Doctoral dissertation, University of Colorado).

- Raymer, J. T. (1974). A study to identify middle schools and to determine the current level of implementation of eighteen basic middle school characteristics in selected United States and Michigan schools (Doctoral dissertation, Michigan State University).
- Riegle, J. D. (1971). A study of middle school programs to determine the current level of implementation of eighteen basic middle school principles (Doctoral dissertation, Michigan State University).
- Smith, G. B. (1977). A comparative study of school climate as perceived by selected students, teachers and administrators in junior high school (Doctoral dissertation, University of Tulsa).
- Soares, L. M., Soares, A. F., & Pumerantz, P. (1973). Selfperceptions of middle school pupils. <u>Elementary School</u> <u>Journal</u>, <u>73</u>, 381-389.
- Stern, G. G. (1970), <u>People in context: Measuring person-</u> <u>environment congruence in education and industry.</u> New York: John Wiley & Sons.
- Stewart, W. J. (1975). What causes a middle school to be ineffective: Student-centered teacher approach. <u>Clearinghouse</u>, <u>49</u> (1), 23-25.
- Strahan, D. B. (1985). Brain growth spurts and middle grades curriculum: Readiness remains the issue. <u>Middle</u> <u>School Journal</u>, <u>16</u> (1), 11-13.
- Strahan, D. B., & Toepfer, C. F., Jr. (1984). Transescent thinking: Renewed rationale for exploratory learning. <u>Middle School Journal</u>, <u>15</u> (2), 8-11.
- Sweeney, J. (1988). <u>Time for improving school climate</u>. Arlington, VA: American Association of School Administrators.
- Swiger, J. R. (1987). A resource guide and tentative model for middle school implementation (Doctoral dissertation, Seattle University).
- Thornburg, H. D. (1981), Developmental characteristics of middle schoolers and the middle school organization. <u>Contemporary Education</u>, <u>52</u> (3), 134-138.
- Tobin, M. F. (1973). Purpose and function precede middle school planning. <u>Educational Leadership</u>, <u>31</u>, 201.
- Toepfer, C. F., Jr. (1962). Evolving curricular patterns in junior high schools--An historical study (Doctoral dissertation, Pennsylvania State University).

- Toepfer, C. F., Jr. (1973). No greater potential: The emerging adolescent learner. <u>Middle School Journal</u>, <u>18</u> (1), 3-6.
- Toepfer, C. F., Jr. (1979). Brain growth periodization--A new dogma for education. <u>Middle School Journal</u>, <u>10</u> (3), 3, 18-20.
- Toepfer, C. F., Jr. (1982). Curriculum design and neuropsychological development. <u>Journal of Research and</u> <u>Development in Education</u>, <u>15</u> (3), 1-11.
- Toepfer, C. F., Jr. (1985). Suggestions of neurological data for middle level education: A review of research and its interpretations. <u>Transescence: The Journal on</u> <u>Emerging Adolescent Education</u>, <u>13</u> (2), 12-38.
- Toepfer, C. F., Jr. (1988). What to know about young adolescents. <u>Social Education</u>, <u>52</u> (2), 110-112.
- Toepfer, C. F., Jr., Lounsbury, J. H., Arth, A. A., & Johnston, J. H. (1986). What we wish people knew about middle level education. <u>The Clearing House</u>, <u>60</u>, 6-10.
- Trauschke, E. M., & Mooney, P. F. (1972). Middle school accountability. <u>Educational Leadership</u>, <u>30</u> (2), 171-74.
- Walberg, H. J. (1970). A model for research on instruction. School Review, 78, 185-200.
- Walberg, H. J., & Anderson, G. J. (1968). Classroom climate and individual learning. <u>Journal of Educational</u> <u>Psychology</u>, <u>59</u>, 414-419.
- Wall, R. (1981). Middle schools take root. <u>Principal</u>, <u>60</u> (3), 8-10.
- Wah, W. (1980). A study of teacher perceptions of selected middle school programs in Michigan (Doctoral dissertation, Michigan State University).
- Wiles, J. (1976). <u>Planning Guidelines for middle school</u> <u>education</u>. Dubuque: Kendall/Hunt.
- Wiles, J. & Bondi, J. (1981). <u>The essential middle school</u>. Columbus, OH: Charles E. Merrill.
- Yoder, W. H. (1982). Middle school vs. junior high misses the point. <u>Educational Leadership</u>, <u>40</u> (2), 50.
- Zakariya, S. B. (Ed.). (1981). Surviving adolescence: Have the middle schools found the secret? [Special issue]. <u>Principal</u>, <u>60</u> (3), 8-31.

APPENDIXES

-

APPENDIX A

RIEGLE'S 18 MIDDLE SCHOOL PRINCIPLES

RIEGLE'S 18 MIDDLE SCHOOL PRINCIPLES

<u>Continuous progress</u>: The middle school program should feature a nongraded organization that allows students to progress at their own individual rate regardless of chronological age.

<u>Multi-material approach</u>: The middle school program should provide a wide range of easily accessible instructional materials. Classroom activities should be planned around a multi-material approach rather than a basic textbook organization.

<u>Flexible schedules</u>: The middle school should provide a schedule that encourages the investment of time based on educational needs rather than standardized time periods. The schedule should be employed as a teaching aid rather than a control device.

<u>Social experiences</u>: The middle school program should provide social experiences appropriate for the transescent youth and should not emulate the social experiences of the senior high school.

<u>Physical experiences</u>: The middle school curricular and cocurricular programs should provide physical activities based solely on the needs of the students. A broad range of intramural experiences that provide physical activity for all students should be provided to supplement the physical education classes, which should center their activity upon helping students understand and use their own bodies.

<u>Intramural activities</u>: The middle school should feature intramural activities rather than interscholastic activities.

<u>Team teaching</u>: The middle school program should be organized around team teaching patterns that allow students to interact with a variety of teachers in a wide range of subject areas.

<u>Planned gradualism</u>: The middle school should provide experiences that assist early adolescents in making the transition from childhood dependence to adult independence, thereby helping them to bridge the gap between elementary school and senior high school.

Exploratory and enrichment studies: The middle school program should be broad enough to meet the individual interests of the students for which it was designed. It should widen the range of educational training a student experiences rather than specialize his training. Elective courses should be a part of the program of every student during his years in the middle school.

<u>Guidance services</u>: The middle school program should include both group and individual guidance services for all students.

Independent study: The middle school program should provide the opportunity for students to spend time studying individual interests or needs that do not appear in the organized curricular offerings.

Basic skill repair and extension: The middle school program should provide opportunities for students to receive clinical help in basic learning skills. The basic education program fostered in the elementary school should be extended in the middle school.

<u>Creative experiences</u>: The middle school program should include opportunities for students to express themselves in creative manners. Student newspapers, student dramatic creations, student oratorical creations, musical programs, and other student-centered, student-directed, studentdeveloped activities should be encouraged.

<u>Security factor</u>: The middle school program should provide every student with a security group: a teacher that knows him well and whom he relates to in a positive manner; a peer group that meets regularly and represents more than administrative convenience in its use of time.

Evaluation: The middle school program should provide an evaluation of a student's work that is personal, positive in nature, non-threatening, and strictly individualized. Parent-teacher-student conferences on a scheduled and unscheduled basis should be the basic reporting method. Competitive letter grade evaluation forms should be replaced with open and honest pupil-teacher-parent communications. <u>Community relations</u>: The middle school should develop and maintain a varied program of community relations. Programs to inform, to entertain, to educate, and to understand the community as well as other activities should be a part of the basic operation of the school.

<u>Student services</u>: The middle school program should provide a broad spectrum of specialized services for students. Community, county, and state agencies should be utilized to expand the range of specialists to its broadest possible extent.

Auxiliary services: The middle school program should utilize a highly diversified array of personnel such as volunteer parents, teacher aides, clerical aides, student volunteers and other similar types of support staffing that help to facilitate the teaching staff.

(Riegle, 1971, pp. 43-45).

APPENDIX B

MIDDLE SCHOOL PRACTICES INDEX

MIDDLE SCHOOL PRACTICES INDEX

	Part I: Place a mark before the answer that seems best to explain your current program as it relates to the question.
1.	Continuous progress programs are:
	not used at this time.
	used only with special groups.
	used only for the first two years. used only by some students for all their years at the school. used by all of the students for their entire program.
	used by all of the students for their entire program.
2.	Continuous progress programs are planned for a student over a span of:
	l calendar year2 calendar years3 calendar years.
З.	The multi-textbook approach to learning is currently:
	used in all or nearly all courses.
	used in most courses. used in a few courses.
	not used in any course.
	•
4.	The instructional materials center in the building houses:
	more than 5000 books between 4000 & 3000 books.
	more than 5000 books. between 4000 & 3000 books. between 3000 & 2000 books between 2000 & 1000 books. less than 1000 books. between 2000 & 1000 books.
	The time for books.
5.	The materials center has a paid staff of:
	more than 1 certified liberian one certified librarian no certified librarian help.
6.	For classroom instruction, audio visual materials other than films and
	videos are used:
	<pre>very frequently by most of the staff. very frequently by a few of the staff and occasionally by the others. ccasionally by all the staff.</pre>
	occasionally by all the staff.
	very rarely by most of the staff. very rarely by any of the staff.
	very fallery by any of the staff.
7.	The basic time block used to build the schedule is:
	10 to 20 minute module. a 30 minute module. a 45 minute module. a 60 minute module. a combination of time so diversified that no basic module is defined.
	a combination of time so diversified that no basic module is defined.
8.	Which of the below best describes your schedule at present:
	<pre>traditional traditional, modified by "block-time", "revolving period", or other</pre>
	such regularly occurring modifications.
	flexible to the degree that all periods are scheduled but not identified in length.
	flexible to the degree that changes occur within designed time limits. flexible to the degree that students and teachers control the daily
	flexible to the degree that students and teachers control the daily time usage and changes occur regularly.
	other
	(Attach a copy of the master schedule if possible)
•	
У.	Sponsorships for club activities are handled by staff members who:
	are assigned sponsorships without additional pay. are paid to assume club sponsorships that are assigned.
	volunteer to sponsor club activities without pay.
	are paid for sponsorships that they volunteer to assume. staff members do not work with club activities.

.

10.	. At present approximately what percent o participate in at least one club activi	ty?
	75 to 100 percent 25 to 50 percent none, as we have no club program	50 to 75 percent 25 percent or less
	none, as we have no club program	
11.	. The physical education program is:	
	highly individualized slightly individualized.	moderately individualized.
	Slightly Individualized.	not individualized at all.
12.	Inter-scholastic competition is current	•
	<pre>not offered at this school. offered in two sports.</pre>	offered in one sport only.
13.	. Intramural activities often use the sam activities. When this causes a time co	nflict, how do you schedule?
	this does not happen because we ha this does not happen because we ha intramural activities take first p	ve no interscholastic programs.
	their needs. interscholastic activities take fi	rst priority and others must
	schedule around their needs.	
14.	. Team teaching programs operate for:	
	all students. about half of the students. none of the students.	only a few students.
15.	. What percentage of your staff is involv	
	<pre>over 90 percent between 30 and 60 percent</pre>	<pre>between 60 and 90 percent less than 30 percent</pre>
	none.	
16.	. A student in grade six averages about h	ow many minutes per day in a team
	teaching program?	
	180 minutes or more. between 90 and 130 minutes.	between 130 and 180 minutes.
	less than 40 minutes.	
	. A student in grades seven or eight aver day in a team taught situation?	ages about how many minutes per
	180 minutes or more. between 90 and 130 minutes.	between 130 and 180 minutes. between 40 and 90 minutes.
	less than 40 minutes.	
1.0		
10.	. Which of the following best describes y from enroliment to completion of the la	st grade?
	<pre>completely self-contained program completely departmentalized for th</pre>	e entire grade span.
	<pre>modified departmentalized (block-t program moves from largely self-co</pre>	ime, core programs, etc.)
	program moves from largely self-co	intained to partially departmentalized
	other	
19.	. Instruction in art is required for all	students for:

 one year	 two		
 three years.	 not	at	a 11.

20. Instruction in music is required:

	one year.	 for	two years.
for	three years.	 not	at all.
	-		

21. The amount of time set aside for elective courses students may select:

decreases with each successive grade.
in the same for all grades.
increases with each successive grade.
varies by grade level but not in any systematic manner.
does not exist at any grade level.

22. Guidance services are available upon request for:

all students every day.
all students nearly every day.
most of the students on a regular basis.
a limited number of students on a limited basis.
other

23. Guidance staff members:

always work closely with the teachers concerning a student. often work closely with the teachers concerning a student. seldom involve the teachers in their work with the students. always work independently of the teachers.

24. Guidance counselors are:

 not expect	ed to h	elp teach	ers bul	ld their gu	uidance ski	11 s .	
					nce skills.		
expected t	to help	teachers	build t	heir guidan	nce skills	and they	are
regularly	encoura	ged to wo	ork in t	his area.			
other							

25. Clinics or special classes to treat the problems of students with poor basic learning skills are:

- 26. The amount of time provided in the classroom for instruction in basic learning skills:
 - increases with each successive grade.
 - remains constant with each successive grade.
 - varies greatly due to the individualized program teachers operate.
 - ______

27. Concerning a school newspaper, our school has:

 no	official	student	schoo.	l pape	er.							
an	official	student	paper	with	no	more	tha	n 4	155U	s per	year.	
 an	official	student	paper	that	pul	lishe	es 5	or	more	issues	per	year.
ot	ner				-			,			-	_

28. Concerning school dramatical activities, most students:

- _____ do not get experience in creative dramatics while enrolled in this building.
- get at least one or two opportunities to use their acting skills while enrolled in this building.

29.	Dramatic	productions	at	this	school	are	produced	from:	
		shared ecrist		on lu					

purchased	actifica	0	-y.			
 materials	written	Ъy	students	only	· .	
materials	written	ьу	students	and	purchased	scripts.
 other		-			-	-

30. This school has oratorical activities such as debate, public address, etc.:
as a part of its planned program of instruction.
as a part of its enrichment program.
not included in school activities.
other

31. Talents shows are:

32. In the operational design of this school the role of the teacher as a guidance person is:

given a very strong emphasis.
 encouraged.
 mentioned to the staff but not emphasized.
left strictly to the individual teacher's personal motivation.
 not important in our guidance plan and therefore not encouraged.
other

33. As a general policy, in the teacher-pupil relationship:

no formal provisions are made for the teacher to provide specific
guidance services.
teachers are expected to provide guidance services for all
of their pupils.
teachers are expected to provide guidance services for only a limited
number of pupils.
other

35. Parent-teacher or parent-teacher-student conferences are held on a schoolwide basis:

NOT at all.	once per year.
twice per year.	three times per year.
four times per year.	five or more times per year.

36. Community service projects by the students are:

not a part of our program. carried out occasionally for a special purpose. an important part of the planned experiences for all students while enrolled in this building.

37. This school currently has:

no parent's organization. a parent's organization that is relatively inactive. a parent's organization that is active. a parent's organization that is very active.

Part II: For each question in this section check all the answers that apply. 38. Which of the following types of materials are housed in your instructional materials center? general library books. current newspapers. below grade level reading material. current magazines. files of past issues of newspapers. above grade level reading materials. card catalogue of materials housed. student publications. files of past issues of magazines. 39. Which of the following types of materials are housed in your instructional materials center? filmstrips. collections (coins, insects, art, etc.) motion pictures (films or videos). microfilms. overhead transparencies. phonograph records. ditto and/or mimeo machines. photo and/or thermal copy machines. maps, globes, and charts. display cases or areas. 40. The master class time schedule can be changed by teachers when need arises: by planning with other teachers on a daily basis. by planning with other teachers on a weekly basis. by seeking administrative approval for a special change. by requesting a change for next semester. by requesting a change for next year. other 41. School dances are held for: _____ grade seven. _____ grade eight. grade six. 42. A club program for students is offered for: ___ grade six. grade seven. _____ grade eight. 43. The intramural program includes: team games. individual sports. various club activities. other 44. Students are allowed to select courses of interest from a range of electives: in grade six. _____ in grade seven. _____ in grade eight. 45. Electives currently offered in this building are: (add any not listed) foreign language journalism vocal music natural resources art drawing _____ creative writing ______ other _____ drama band speech orchestra other wood shop family living typing unified arts other 46. How much time would you estimate the average student spends in independent study for each grade level listed below? _ minutes per day in grade six.

minutes per day in grade seven. minutes per day in grade eight. 47. Students working in independent study situations work on topics

	.ndependent st		
assigned to	them by the t	eacher.	
 of personal	interest and .	approved by the	teacher.
 of personal	interest and	unrelated to cla	ssroom work.
other			

48. Students with poor basic skills can get special help in the following areas: (Check only those areas where special help on an individual basis is provided by special staff members trained to treat such situations.)

	reading	 mathem	lati	CS
_	spelling	 physic	a 1	education
_	grammar	 other		

49. Dramatic presentations by students are:

not a part of the school program. a part of the activities program. a part of certain class activities planned by the teachers. other

50. Formal evaluation of students' work is reported by use of:

a standard report card with letter grades. teacher comments, written on a reporting form. parent-teacher conferences. standard report card with number grades. parent-teacher-student conferences. other

51. In regard to community relations, this school currently: _______ does not send out a parents' newsletter. _______ sends out a parents' newsletter when need arises. _______ sends out a parents' newsletter on a scheduled basis. _______ used a district-wide newsletter to send out information related to this school. _______ uses commercial newspaper. _______ other ______

52. The staff presents informational programs related to the school's functions:

	when requested by the parents.	
	once or twice a year at regular	parents' meetings.
	at open house programs.	• •
		type" meetings planned for parents.
-		type meetings planned for parents.
	other	

53. From the specialized areas listed below, check each service which is available to students in your building.

 school psychologist speech therapists special reading teacher		
 clinic services for emotional di special education programs for m other	sturbed mentally handicapped.	
 		-

54. Teaching teams are organized to include:

.

fully certified teachers. clerical helpers.		teachers.
 others	 	

55. From the following list, check those types of auxiliary helpers available in your building.
Provid pressure from the community.

 hard hardhrorressio				
 volunteers from the	student body	students	teachers	and interns.
high school "future	teachers" students	ι.		
 others				

Part III. For each question in this section please check the box or boxes that best describe your program.

56. School social functions are held at this school:

	During the afternoon	During the evening
Grade six		
Grade seven		
Grade eight		

57. The physical education program serves:

	All Students	Some Students	No Students
Grade six			
Grade seven			
Grade eight			

58. What degree of emphasis does the physical education program give to the competitive and developmental aspects of the program for boys and girls?

	Boys	Girls
Competitive Aspects	High Medium Low	High Medium Low
Developmental Aspects	High Medium Low	High Medium Low

59. Intramural activities are scheduled for:

	All Students	Boys Only	Girls Only	No Students
Grade six				
Grade seve	en			
Grade eigh	it			

60. How do your guidance counselors handle group guidance sessions?

	Regular sessions several times per year	Special sessions only	None
Grade S1X			
Grade seven			
Grade eight			

61. Independent study opportunities are provided for:

	All Students	Some Students	No Students
Regular class time			
Time scheduled for Independent Study			

62. Daily instruction in a developmental reading program is provided for:

All Poor Not

	Students	Readers	At All
Grade six			
Grade seven			
Grade eight			

The following questions are not part of the Middle School Practices Index, but consist of information needed to get a comprehensive understanding of the current status of middle schools in Oklahoma. Your response to these items will be greatly appreciated. General estimates of student populations will be sufficient. Give personnel numbers in full-time equivalents (ex. Principal and half day assistant = 1.5 administrators). The term middle school refers to your school regardless of the grade organization or name.

1.	What is the student population for your district (K-12)?	-	
2.	What grades are included in your middle school?		
3.	What is the student population for your middle school?		
4.	Number of teachers in your middle school?		
5.	Number of administrators in your middle school?		
6.	Number of counselors in your middle school?		
7.	Is your middle school housed with another school? If yes, explain:	yes	no
8.	Do you have administrative duties involving other grade level students? If yes, explain?	yes	по

If you would like a copy of the results of this research project, please give your name and address below.

Thank you for your participation.

135

APPENDIX C

.

NASSP SCHOOL CLIMATE SURVEY

SIDE	2	

NATIONAL ASSOCIATION OF SECONDARY SCHOOL PRINCIPALS

SCHOOL CLIMATE SURVEY

1003060	21 () (2 () () () () ()	41 () (2 (3 (9 (6 (0
200 00000	22 (1) (2) (2) (3) (5) (6)	42 () (2 (2 (3 (6 (6 (6 (
30000000000	23 () (2) (2) (3) (5) (6)	43 () () () () () () () () () () () () ()
4003060	24 () (2 (3 (8 (5 (8	44 () (2) (2) (3) (4) (6) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
\$0000000	25 () (2 (3 (8 (6 (6 (45 () () () () () () () () () () () () ()
•00396	28 () (2 (3 (6 (6 (6	46 () () () () () () () () () () () () ()
10000000	27 () () () () () () ()	47 () () () () () () () () () () () () ()
•003060	28 () (2 (3 (6 (6 (6 (48 () () () () () () () () () () () () ()
•000000	29 () (2 (2) (0) (5) (0)	49 () () () () () () ()
18(1)(2)(3)(4)(5)(0)	3 0 () () () () () () () () () () () () ()	sa () () () () () () () () () () () () ()
11 (1 (2 (3 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 	31 () (2) (2) (3) (6) (6)	sı () (2 (3 (4 (5 (6 (
12 () (2 (3 (9 (5 (9	32 () (2 (3 (4 (5 (6 (52 () (2 () (0 (S (B
13() (2 (3 (6 (5 (6	33 () () () () () () ()	53 () (2) (2) (3) (5) (9)
14 () () () () () () ()	34 () (2 (2) (3) (5) (0)	54 () () () () () () () () () () () () ()
16 () () () () () () () () () () () () ()	35 (1) (2) (2) (3) (6) (6)	55 () () () () () () () () () () () () ()
16003060	36 () (2 (2) (3) (6) (6)	ss () () () () () () ()
17 () (2 (3 (9 (6 (9	37 () (2 (2) (3) (6) (6)	\$7 () (2 (3 (6 (6 (6 (
11 () (2 (3 (9 (5 (0	38 () (2 (2) (0) (5 (6)	sa () () () () () () () () () () () () ()
19 () () () () () () ()	39 () (2 (3 (6 (6 (6	59 () () () () () () () () () () () () ()
28 () (2) (3) (4) (5) (6)	40 () () () () () () () () () () () () ()	_ 60 (2) (2) (3) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5

Directions

This survey is part of a statewide research project concerning middle level education. Your participation in this project would be greatly appreciated.

This survey asks teachers what most people think about the school. The survey has a number of statements that describe situations found in many schools. Most of these statements will fit your school, but for those that do not, mark the "don't know" answer.

Please detach this page and mark your answers on this answer sheet. Do not write your name on the answer sheet (your answers are confidential). Mark only one answer for each statement. Choose the answer that you think most people in your school and community would pick. Use the following scale for your answers.

- l = Most people would strongly disagree
 with this statement.
- 2 = Most people would **disagree** with this statement.
- 3 = Most people would neither agree nor disagree with this statement.
- 4 = Most people would agree with this
 statement.
- 5 = Most people would strongly agree with this statement.
- 6 = I don't know what most people think about this statement.

Return the completed answer sheet to the person or place designated by your principal.

THANK YOU for your cooperation.

137

KEY: MOST PEOPLE

- 1 = STRONGLY DISAGREE
- 2 = DISAGREE
- 3 = NEITHER AGREE NOR DISAGREE
- 4 = AGREE
- 5 = STRONGLY AGREE
- 6 = DON'T KNOW

TEACHER-STUDENT RELATIONSHIPS

- 1. Teachers in this school like their students.
- 2. Teachers in this school are on the side of their students.
- 3. Teachers give students the grades they deserve.
- 4. Teachers help students to be friendly and kind to each other.
- 5. Teachers treat each student as an individual.
- 6. Teachers are willing to help students.
- 7. Teachers are patient when a student has trouble learning.
- 8. Teachers make extra efforts to help students.
- 9. Teachers understand and meet the needs of each student.
- 10. Teachers praise students more often than they scold them.
- 11. Teachers are fair to students.
- 12. Teachers explain carefully so that students can get their work done.

SECURITY AND MAINTENANCE

- 13. Students usually feel safe in the school building.
- 14. Teachers and other workers feel safe in the building before and after school.
- 15. People are not afraid to come to school for meetings and programs in the evening.
- Classrooms are usually clean and neat.
 The school building is kept clean and neat.
- 18. The school building is kept in good repair.
- 19. The school grounds are neat and attractive.

ADMINISTRATION (Principal, Assistant Principal, etc.)

- 20. The administrators in this school listen to student ideas.
- 21. The administrators in this school talk often with teachers and parents.
- 22. The administrators in this school set high standards and let teachers, students, and parents know what these standards are.
- 23. Administrators set a good example by working hard themselves.
- 24. The administrators in this school are willing to hear student complaints and opinions.
- 25. Teachers and students help to decide what happens in this school.

STUDENT ACADEMIC ORIENTATION

- 26. Students here understand why they are in school.
- 27. In this school, students are interested in learning new things.
- 28. Students in this school have fun but also work hard on their studies.
- 29. Students work hard to complete their school assignments.

GO TO THE NEXT PAGE

KEY: MOST PEOPLE

- 1 = STRONGLY DISAGREE
- 2 = DISAGREE
- 3 = NEITHER AGREE NOR DISAGREE
- 4 = AGREE
- 5 = STRONGLY AGREE
- 6 = DON'T KNOW

STUDENT BEHAVIORAL VALUES

- 30. If one student makes fun of someone, other students do not join in.
- 31. Students in this school are well-behaved even when the teachers are not watching them.
- 32. Most students would do their work even if the teacher stepped out of the classroom.

GUIDANCE

- 33. Teachers or counselors encourage students to think about their future.
- 34. Teachers or counselors help students plan for future classes and for future jobs.
- 35. Teachers or counselors help students with personal problems.
- 36. Students in this school can get help and advice from teachers or counselors.

STUDENT-PEER RELATIONSHIPS

- 37. Students care about each other.
- 38. Students respect each other.
- 39. Students want to be friends with one another.
- 40. Students have a sense of belonging in this school.

PARENT AND COMMUNITY-SCHOOL RELATIONSHIPS

- 41. Parents and members of the community attend school meetings and other activities.
- 42. Most people in the community help the school in one way or another.
- 43. Community attendance at school meetings and programs is good.
- 44. Community groups honor student achievement in learning, music, drama, and sports.

INSTRUCTIONAL MANAGEMENT

- 45. There is a clear set of rules for students to follow in this school.
- 46. Taking attendance and other tasks do not interfere with classroom teaching.
- 47. Teachers spend almost all classroom time in learning activities.
- 48. Students in this school usually have assigned schoolwork to do.
- 49. Most classroom time is spent talking about classwork or assignments.
- 50. Teachers use class time to help students learn assigned work.
- 51. Outside interruptions of the classroom are few.

STUDENT ACTIVITIES

- 52. Students are able to take part in school activities in which they are interested.
- 53. Students can be in sports, music, and plays even if they are not very talented.
- 54. Students are comfortable staying after school for activities such as sports and music.
- 55. Students can take part in sports and other school activities even if their families cannot afford it.

END OF THE SURVEY

COMMUNICATIONS

VEPENDIX D

-

March 26, 1990

(Principal's Name), Principal (School's Name) (Address) (Town, Zip)

Dear (Mr. Last Name),

I am conducting a study of middle schools in Oklahoma as part of my work for the doctoral degree in Educational Administration at Oklahoma State University. I have worked with middle level students for eleven years, the past five as assistant principal at Cleveland Middle School. As a fellow administrator I know how incredibly busy your days can be. However, if you could find the time to complete and return the Middle School Practices Index by April 10th, I would be most appreciative.

The **MSPI** takes approximately 15 to 20 minutes to complete. The questionnaire will provide descriptive information of what is occurring within Oklahoma's middle schools and provide data to be compared to earlier studies using this same instrument.

The identity of schools and principals participating in the survey will remain confidential. The stamped, selfaddressed envelope is marked to identify participants for the purpose of second mailing and possible follow-up studies.

Middle level education is a vital, often overlooked, aspect of our public schools. Your assistance with this research project is a contribution to that cause. Thank you, (Mr. Last Name), for your cooperation and please accept my sincere appreciation for your time and effort.

If possible, please complete and return today!

Sincerely Doug Thomas

Doug Thomas Assistant Principal Cleveland Middle School April 21, 1990

(Principal's Name), Principal (School's Name) (Address) (Town, Zip)

Dear (Mr. Last Name),

Three weeks ago I contacted you concerning a research project I am conducting as part of my work for the doctoral degree in Educational Administration at Oklahoma State University. Again, I ask you for your assistance in this effort. As a fellow administrator I know how incredibly busy your days can be. However, if you could find the time to complete and return the **Middle School Practices Index** by May 1, I would be most appreciative.

The **MSPI** takes approximately 15 to 20 minutes to complete. The identity of schools and principals participating in the survey will remain confidential. A stamped, self-addressed envelope has been included for your convenience.

Thank you, (Mr. Last Name), for your cooperation and please accept my sincere appreciation for your time and effort.

If possible, please complete and return today!

Sincerely,

Doug Thomas

Doug Thomas Assistant Principal Cleveland Middle School

Doug Thomas P.O. Box 843 Mannford, OK 74044

May 2,1990

(Principal's Name), Principal (School's Name) (Address) (Town, Zip)

Dear (Mr. Last Name),

I recently spoke with you on the phone regarding having the teachers in your building complete a school climate survey for me as part of a middle school research project I am working on. Enclosed with this letter are enough survey packets for your staff. Each packet contains an answer sheet with directions and the two page survey.

If you would distribute the surveys to each teacher and inform them where they can turn them in, I would be most appreciative. Please allow the teachers a week to turn the surveys in, and then mail the completed surveys to me in the enclosed, self-addressed, manila envelope.

Thank you for your time and assistance with this project.

Sincerely, MAG

Doug Thomas Assistant Principal Cleveland Middle School

VITA

Douglas Dwain Thomas

Candidate for the Degree of

Doctor of Education

Thesis: THE IMPLEMENTATION OF RECOMMENDED PRACTICES AND SCHOOL CLIMATE IN OKLAHOMA MIDDLE SCHOOLS

Major Field: Educational Administration

Biographical:

- Personal Data: Born in San Diego, California, February 26, 1957, the son of Paul E. and Joanna F. Thomas.
- Education: Graduated from Velma-Alma High School, Velma, Oklahoma, in May 1975; received Bachelor of Arts Degree in Social Studies Education from Southeastern Oklahoma State University, Durant, Oklahoma, in May 1979; received a Master of Science Degree in Curriculum and Instructional Education from Oklahoma State University, Stillwater, Oklahoma, in December 1982; completed requirements for the Doctor of Education Degree in Educational Administration from Oklahoma State University in May 1991.
- Professional Experience: Teacher, Mannford Middle School, Mannford, Oklahoma, August 1979 to May 1985; Assistant Principal, Cleveland Middle School, Cleveland, Oklahoma, August 1985 to May 1990; Principal, Cleveland Middle School, June 1990 to May 1991.
- Professional Organizations: Oklahoma Association of Secondary School Principals; Oklahoma Middle Level Association; National Association of Secondary School Principals.