# A COMPARISON OF THE EFFECTS OF ORFF SCHULWERK AND TRADITIONAL MUSIC INSTRUCTION ON SELECTED ELEMENTS OF MUSIC ACHIEVEMENT IN THIRD, FOURTH, AND FIFTH GRADE STUDENTS

by

## SARA CHANDLER TROTMAN WOMACK

#### (Under the Direction of Roy Legette and Mary Leglar)

#### ABSTRACT

In light of the multitude of approaches to teaching musical concepts, it is a challenge to determine which approach is most effective in teaching these concepts. Although the Orff Schulwerk approach has gained a growing following in recent years, there is little evidence to support its positive effects on music achievement in comparison with other approaches, such as Dalcroze and Kodály. The purpose of this study is to compare the musical achievement of third, fourth, and fifth grade students taught using an Orff-centered approach with that of students taught using a more traditional music teaching approach, as outlined in the music textbook series Share the Music. For the control group, the study utilized two intact classes from each of the following grade levels: third grade (n = 32, 16 girls and 16 boys), fourth grade (n = 41, 19 girls and 22 boys), and fifth grade (n = 40, 24 girls and 16 boys) for a total of 113 subjects. For the experimental group, the study utilized three intact third grade classes (n = 46, 19 girls and 27 boys), three intact fourth grade classes (n = 59, 30 girls and 29 boys), and two intact fifth grade classes (n = 40, 21 girls and 19 boys) for a total of 145 subjects. The total number of subjects in the study was 258 students. All subjects in the experimental and control groups were administered a pretest and posttest with a treatment period of 13 lessons within five months. Test 1 of the *Music Achievement Tests (MAT)*, including pitch, interval, and meter discrimination, developed by Richard Colwell served as the measurement tool. T-tests were utilized to determine if a significant difference existed between the treatment methods. No significant difference was found in a comparison of pretest-posttest mean gain scores for students in each grade level, but collectively, statistical significance for students in all grade levels was found between the mean gain scores for the two groups on the pitch and meter discrimination subtests and the overall score in favor of the control group. No significant difference was found for the interval discrimination subtest.

INDEX WORDS: Orff, Orff Schulwerk, Music Achievement, Music Achievement Test, Music Textbook, Share the Music

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DOCTOR OF EDUCATION

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## DEDICATION

I would like to dedicate the culmination of this research to my family. First, my parents' financial and emotional support enabled me to start my journey into education. They taught me to love learning and expected nothing but my best. My husband, Sean Womack, was an everlasting source of reason and sustenance. His optimism and respect inspired me to complete the dissertation process. I would also like to dedicate this work to my sons, Will and Mason, who were born during its completion. Hopefully, they will come to understand the importance of lifelong knowledge acquisition.

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"Surround yourself with only people who are going to lift you higher."

- Oprah Winfrey

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#### CHAPTER 1

## INTRODUCTION

The number of instructional resources available to elementary music specialists has increased substantially over the last two decades (Maher, 1998). Although benchmarks of achievement have been detailed in such documents as *The National Standards for the Arts* (MENC, 1994), it is left to the teacher to determine which of the many available resources will be most effective in helping students meet the standards. The range of choice extends from traditional textbooks to technologically advanced cd-roms; from materials supporting the various eclectic approaches to those that are comprehensive and traditional. Research has offered some assistance in making these choices. In particular, a number of studies have investigated the effectiveness of eclectic versus traditional approaches.

Of the eclectic approaches, the work of Carl Orff has gained a marked following within the last two decades. According to Cindi Wobig (personal communication, December 23, 2004), former Executive Director of the American Orff Schulwerk Association (AOSA), from 1980 to 2004, the association posted a membership growth rate of 68.14% and a chapter growth rate of 72.22%. In contrast, the Kodály method has not shown a comparable growth rate. Joan L. Dahlin, Administrative Director for the Organization for American Kodály Educators (OAKE), reports that her organization's membership has held steady with about 1,600 members since 1980 (personal communication, April 14, 2005). Treasurer Kathy McLane, of the Dalcroze Society of America, did not have data available for comparison, but reported 399 people in the mailing database and four sanctioned chapters (personal communication, March 22, 2005).

The increased popularity of the Orff approach (Orff Schulwerk) over other eclectic approaches raises some basic questions. How does Orff Schulwerk differ from the more traditional comprehensive approach offered in music education textbooks? In terms of student learning, is Orff Schulwerk more effective than the traditional comprehensive approach used in music education textbooks?

#### Purpose and Need for the Study

While there is evidence that supports and illustrates the popularity of Orff Schulwerk, there is relatively little documentation addressing its effect on musical achievement. Specifically, there is need to develop a substantial body of research that addresses the issue of effectiveness. The purpose of this study was to measure the musical achievement of third, fourth, and fifth grade students instructed using an Orff-centered approach and those instructed using a more traditional music teaching approach as outlined in the music textbook series, *Share the Music* (Bond et al., 1998). The following questions were investigated:

- 1. Is there a significant difference in music achievement, evidenced by pretest/posttest mean gain scores, between students taught using an Orff-centered approach and students taught using a non-Orff-centered approach?
- 2. Is there a significant difference in music achievement among grade levels for students taught using an Orff approach and those taught using a non-Orff approach?

# Definition of Terms

Music achievement: Student demonstration of current conceptual knowledge as measured by the *Music Achievement Tests* by Richard Colwell.

Musical concept: A general musical idea that can be transferred from one situation to another

as outlined in curriculum guides published by federal and state governments, as well as local school districts.

Orff Schulwerk: An approach to music education developed by Carl Orff and Gunild Keetman, in which students become immediate participants in the music making process through singing, moving, and playing instruments. The goal of Carl Orff's approach is independent musicianship for all students, which can be obtained through various means. Orff strongly believed that the speech and song of a child's native culture were natural starting points for a child's first experiences with music. This includes nursery rhymes, children's songs, and folk music, which together complements Orff's elemental style. Elemental style, breaking down music to the simplest components, is also a fundamental component of rhythmic education. One of Orff's primary tenets is "that rhythm is expressed constantly in the speech and movements of every child and that we must develop it through these mediums" (Hall, 1960, p. 6). Orff stressed the importance of experience before the introduction of abstract knowledge. He compares music education to our system of schooling. Teachers do not expect students to know how to read and write before they are able to communicate (Hall, 1960). From the beginning, Orff stressed the importance of students physically experiencing beat, tempo, pitch, and rhythm. Children should experience and explore music before formally learning about music. According to Orff, these musical experiences are best conducted in ensemble situations, where each student contributes to the group as a whole through canon, improvisation, rhythmic and melodic ostinati, body percussion, and instrument performance.

Traditional Method: An instructional process that merges various approaches including Kodály,
Orff, and Dalcroze as outlined in the basic program of *Share the Music*. The text provides sequenced lessons in a child-centered program that incorporates a variety of learning modalities. *Share the Music* integrates Kodály, Orff, Dalcroze, and traditional music education in a comprehensive approach. Age-appropriate materials of the highest quality featuring a variety of musical styles are included. The series offers lessons that identify and encourage the formation of concepts through a variety of learning situations.
Although *Share the Music* incorporates some aspects of Orff Schulwerk, the differences between the approaches utilized in this study are wide and varied (see Table 1). The differences in approaches may not generalize to all teaching situations due to strengths and weaknesses of the teacher.

#### Limitations

The study was limited in the following ways:

- 1. The study involved third, fourth, and fifth grade students in intact classes. Due to school constraints, random assignment was not possible.
- Generalization of the results is limited by specific characteristics of the students and school where the study was conducted.

#### Organization of the Dissertation

Chapter 2 contains a discussion of the related literature. The presentation of research procedures is included in Chapter 3. The pretest and posttest data results are analyzed in Chapter 4. Chapter 5 contains a summary of the information presented in the study, a discussion of the results, the conclusions obtained, and the recommendations for further study of the topic. The appendix includes consent forms, detailed lesson plans for the control group and the

# Table 1

Differences between the Instructional Approaches of Orff Schulwerk and Share the Music

Basic Program of Share the Music (Bond et al., 1998)*Orff Schulwerk (Frazee, 1987; Hall, 1960; Steen, 1992)*incorporates Dalcroze, Kodály, Orff, and traditional music education approachesonly utilizes Orff approach						
(Bond et al., 1998)*(Frazee, 1987; Hall, 1960; Steen, 1992)*incorporates Dalcroze, Kodály, Orff, and traditional music education approachesonly utilizes Orff approach	Basic Program of Share the Music	Orff Schulwerk				
incorporates Dalcroze, Kodály, Orff, and traditional music education approaches	(Bond et al., 1998)*	(Frazee, 1987; Hall, 1960; Steen, 1992)*				
incorporates Dalcroze, Kodály, Orff, and traditional music education approaches only utilizes Orff approach	· · · · · · · · · · · · · · · · · · ·					
traditional music education approaches	incorporates Dalcroze Kodály Orff and	only utilizes Orff approach				
	traditional music education approaches					
	traditional music education approaches					
highly organized and structured more flexible depending on teacher's strengths	highly organized and structured	more flexible depending on teacher's strengths				
and weaknesses, class size, ability level of the students and materials		and weaknesses, class size, ability level of the students, and materials				
students, and materials		students, and materials				
focuses on cognitive connection with music focuses on experiential/emotional connection	focuses on cognitive connection with music	focuses on experiential/emotional connection				
more complex song materials in terms of key, less complex song materials in terms of key,	more complex song materials in terms of key,	less complex song materials in terms of key,				
meter, rhythm, melody, lyrics, and origin meter, rhythm, melody, lyrics, and origin	meter, rhythm, melody, lyrics, and origin	meter, rhythm, melody, lyrics, and origin				
rate learning shortly before or simultaneous rate learning long before note learning and	rate learning shortly before or simultaneous	rate learning long before note learning and				
role learning shortly before of simultaneous role learning long before note learning and	with note learning shortly before of simulateous	Tote learning long before note learning and				
with note learning and emphasis on symbols emphasis on performing music	with note learning and emphasis on symbols	emphasis on performing music				
emphasis on group instruction emphasis on group instruction as well as	emphasis on group instruction	emphasis on group instruction as well as				
individualized instruction dependent upon	emphasis on group monuclion	individualized instruction dependent upon				
needs abilities and notential of each student		needs abilities and notential of each student				
needs, donnies, and potential of each student		needs, donnies, and potential of each student				
passive and active participation due to more primarily active participation	passive and active participation due to more	primarily active participation				
listening and writing activities	listening and writing activities	F				
can be taught by music specialists or general taught by music educators with specialized	can be taught by music specialists or general	taught by music educators with specialized				
classroom teachers training	classroom teachers	training				
emphasis on singing emphasis on instrument playing	emphasis on singing	emphasis on instrument playing				
greater use of written assignments for greater use of informal observations for	greater use of written assignments for	greater use of informal observations for				
assessment purposes assessment purposes	assessment purposes	assessment purposes				
integration with other subject areas less integration with other subject areas	integration with other subject areas	less integration with other subject areas				
		6				
emphasis on listening to recorded music less emphasis on listening to recorded music	emphasis on listening to recorded music	less emphasis on listening to recorded music				
emphasis on the use of technology less emphasis on technology	emphasis on the use of technology	less emphasis on technology				

\* The characteristics outlined in the above table were formulated by the researcher based on her understanding and interpretations of each teaching approach provided in *Share the Music* and other respected Orff Schulwerk sources.

experimental group, resources for the experimental group lesson plans, and a rubric for determining equality between lesson plans for the groups.

#### CHAPTER 2

#### **RELATED LITERATURE**

The literature regarding the effects of Orff Schulwerk instruction on music achievement is extremely sparse. Of the few studies that exist, much of the research does not investigate the pure Orff Schulwerk approach. Instead, the Orff process is combined with other approaches to music education, such as Kodály and Dalcroze. Overall, the research details mixed results.

#### Orff Schulwerk and Music Achievement

With regard to the effect of Orff Schulwerk on the music achievement of elementary school students, the literature is inconclusive. Four studies found that the Orff approach had no significant effect on music achievement, while one found that the Orff approach significantly affected music achievement. Two reported that Orff Schulwerk had a positive effect on student attitudes toward music.

Hensley (1981) compared the musical achievement of 237 fourth and fifth grade students taught from the Memphis City Curriculum Guide, based on the Orff and Kodály philosophies of music education, and the musical achievement of students taught from the *Exploring Music* songbook series. After a treatment period of 18 weeks with one 30-minute lesson per week, significant difference in favor of the Curriculum Guide group was found for the melody recognition and instrument recognition subtests of the *Music Achievement Tests* on the fourth grade level and the feeling for tonal center and instrument recognition subtests of the *Music Achievement Tests* on the fifth grade level.

The results of an earlier study (Siemens, 1969) differed from Hensley's findings. In this comparison, 233 fifth grade students involved with the Orff instructional program showed a significantly greater improvement in interest and attitude on a questionnaire developed by the investigator, although the 225 fifth grade students instructed with traditional music education methods performed significantly better on the *Knuth Achievement Test*, which measures recognition of certain rhythmic and melodic characteristics. Enjoyment of classical and dinner music was greater with students in the traditional group, but enjoyment of part-singing, music instruction, and rhythmic activities was greater with students in the Orff group.

Hudgens (1987) investigated different approaches to teaching 121 first grade students to sing on pitch, echo clap rhythms, audiate tonal patterns, and audiate rhythm patterns. The approaches included the Kodály approach, the traditional approach, and two eclectic approaches, one emphasizing some Kodály techniques and another emphasizing some techniques of the Orff approach. On *The Primary Measures of Music Audiation* and a researcher-developed performance test, students taught using the Kodály approach scored slightly higher in their ability to echo clap rhythms, sing on pitch, and audiate rhythm patterns. No significant difference was found in the ability of students to audiate tonal patterns.

Boras (1988) explored the differences between students taught with the Orff Schulwerk approach and traditional music education in gross motor skill development, attitudinal enhancement, and music skill acquisition through quantitative and qualitative data analysis. The traditional method focused on the introduction of notation followed by the introduction of the associated response. The Orff Schulwerk approach encouraged development in speech, singing, playing instruments, listening, movement, and improvisation. After a treatment period of 12 weeks with three 40-minute music lessons per week, no statistically significant difference was

found for any of the variables between groups. In contrast, the qualitative data, collected through observations and interviews with participating students and teachers, showed that the Orff Schulwerk group displayed a better quality of movement and a more positive attitude toward music and the development of music skills than the traditional music education group.

Young (1967) sought to determine whether there was a significant difference in music appreciation and enjoyment between students taught using Carl Orff's *Music for Children* and those taught using traditional teaching procedures. The subjects included 59 fourth grade students in two intact classes. Data obtained using the *Kwalwasser Music Talent Test* and researcher-developed assessments revealed no significant difference in the effectiveness of the two treatment methods.

#### Movement Activities and Music Achievement

A few studies have focused on the movement aspect of the Orff approach and its effect on music achievement. The results are inconclusive, with three studies finding that movement significantly affects some aspects of music achievement and two studies reporting that it does not.

Douglass (1977) investigated the effect of rhythmic movement on the music achievement of fourth grade students who received music instruction for 60 minutes per week over a period of 28 weeks. Twenty minutes of each class period were designated for teaching the recorder. The study of rhythm was the emphasis for the remaining 40 minutes. The control group followed the same procedure, but the lessons did not involve movement activities. No significant difference was found between the control group and the experimental group on the *Iowa Tests of Music Literacy*, a researcher-developed test of recorder performance, and a researcher-developed test of

sight reading. However, a significant difference in favor of the experimental group was found between the treatments on a test of physical responses to rhythm.

A study by Moore (1984) investigated the effect of rhythm and movement on music aptitude in second and third grade students. The experimental group, consisting of four classes, was taught using rhythm and movement instruction, including the techniques of Orff and Weikart. Two control groups, also consisting of four classes each, were utilized. One control group was instructed using a traditional approach, while the second control group received no formal music education. Results revealed a significant difference in rhythm aptitude in favor of the experimental group. Some effect on music aptitude was also noted, although the difference was not statistically significant.

Lewis (1985) examined the effect of movement on music achievement and music listening skills. The subjects in the study, 61 first grade students and 52 third grade students in intact classes, were divided into experimental and control groups for 12 music lessons lasting 30 minutes each over a period of six weeks. A standard music textbook was used for both groups. The experimental group also participated in movement-based instructional activities. After an analysis of the data from a music achievement test and an assessment of music listening skills, the researcher found that first grade students in the experimental group performed significantly better on the aural perception of dynamics. Additionally, the third grade students in the experimental group performed significantly better on the aural perception of dynamics and melodic direction, as well as the composite measure of music achievement.

In addition to examining the relationship between Orff Schulwerk and self-concept, Cheek (1979) considered whether psychomotor experiences, based on the approaches of Orff and Kodály, would influence the music achievement of fourth grade students taught in three 30-

minute weekly sessions for 15 weeks. The control group, consisting of one intact class, received music instruction with listening, singing, performing on instruments, and creating and analyzing music. The experimental group, also consisting of one intact class, was taught with the same curriculum as the control group with the addition of psychomotor experiences, including creative movement, body rhythms, and hand gestures. The researcher found that students who received psychomotor experiences as a regular part of their music instruction scored significantly higher in the areas of meter discrimination, music reading skills, and rhythm response. In the areas of tonal center and major/minor mode discrimination, no significant differences were observed.

In contrast, Yen (1996) found that movement instruction, including conducting, clapping, snapping, patting knees, stomping, head movements, walking to the beat, dancing, and creative movements, does not significantly benefit the music education of third grade students. Subjects in this study consisted of 46 third grade students from a public school and 45 third grade students from a private school. An observation instrument was used over a period of eight weeks to record the frequencies and amount of time that students spent in movement activities. After administering portions of the *Silver Burdett Music Competency Tests*, the researcher concluded that movement instruction does not contribute to the musical development of dynamics, meter, tempo, and melodic direction.

#### Orff Schulwerk and the Development of Specific Musical Concepts

The literature provides mixed results regarding the effect of the Orff approach on specific music concepts. For melodic concepts, the effects of Orff Schulwerk have not been conclusively demonstrated: two studies found no relationship, while one other study found a link between the Orff approach and melodic progression. Two studies found Orff Schulwerk to have a positive effect on rhythmic concepts. In addition, the Orff approach was found to have a positive effect

on some areas of creativity and attitude, including musical flexibility and enjoyment of singing, moving, playing instruments, and composing songs.

Olson (1964) compared the Orff approach and a traditional music teaching approach in relation to their effectiveness in the development of melodic sensitivity of 52 sixth grade students. The traditional music approach featured minimal instrumental and composition experiences and an emphasis on singing and listening activities. After a treatment period of 18 lessons and an examination of the pretest and posttest data, the researcher found that both approaches contributed to the acquisition of melodic sensitivity, but neither was superior to the other.

In a similar study, Muse (1994) sought to determine the effectiveness of the Orff Schulwerk approach on improving primary school students' ability to sing a melody with accurate pitch within a group. The experimental group (n = 22) was instructed using the Orff Schulwerk approach, while the control group (n = 22) utilized standard elementary music textbooks. After the treatment period of eight lessons and a researcher-developed assessment, no significant difference between the groups was observed.

In contrast, Mueller (1993) investigated the effect of movement-based instruction on melodic perception. The control group consisted of two intact third grade classes, each receiving music classes without movement-based instruction. The experimental group, also composed of two intact classes, received instruction based on the philosophies of Dalcroze, Kodály, and Orff. After a treatment period of nine weeks with two 30-minute sessions per week, findings showed a positive effect for both groups on the perception of melodic register, direction, and progression as measured by Colwell's *Silver Burdett Music Competency Tests*. Although no significant differences were found between groups on the melodic register and melodic direction subtests,

results indicated a significant difference on the melodic progression subtest in favor of the treatment group.

Two studies examined the influence of Orff Schulwerk on rhythmic ability with conclusive results. Rohwer (1998) investigated the effect of movement instruction, including the approaches of Orff, Kodály, and Dalcroze, and traditional rhythm instruction on the perception, synchronization, and performance of steady beat in 70 sixth grade instrumental music students. For a period of 10 weeks, the control group used cognitive processes and traditional smallmovement experiences to understand rhythm, while the experimental group focused on more locomotor movements. After the administration of three researcher-developed tests, Rohwer found that synchronization and performance of steady beat were positively affected by the movement instruction, although steady beat perception was not significantly different between the control group and the experimental group.

Another study investigated the effectiveness of a 10-week music and movement program, based on the Orff and Dalcroze approaches, on rhythmic ability of preschool children (Zachopoulou, Derri, Chatzopoulou, & Ellinoudis, 2003). The control group consisted of 38 children who participated in free-play activities for 35 to 40 minutes twice per week, while the experimental group, consisting of 34 children, participated in the music and movement program for 35 to 40 minutes twice per week. After analyzing the data from the *High/Scope Beat Competence Analysis Test*, the researchers concluded that the movement and music program had a significantly positive effect on the level of rhythmic ability.

The Orff and traditional music education approaches as they relate to student creativity were examined by Bishop (1991). Subjects included in the study were three intact classes of third grade students. Over a period of 12 weeks, the experimental classes were taught using Orff

Schulwerk techniques and the control class was taught using traditional methods outlined by a music textbook. The creativity of the students was assessed by the *Measure of Creative Thinking in Music*. Findings revealed that the experimental group made statistically significant gains in musical flexibility, although no difference was found between the groups in musical originality and musical syntax.

Wolff (1973) investigated the attitudinal effects of a traditional music education and an Orff Schulwerk teaching approach on second and fifth grade students (N = 160). A researcherdeveloped assessment, designed to measure attitudes toward participation in various music activities, was used as a pretest and posttest. After a treatment period of 20 sessions over nine weeks, findings revealed that the Orff approach significantly affected the attitude of students in the areas of singing, movement, playing instruments, and composing songs. Factors that reflected no significant attitudinal differences between groups were rhythm, listening, reading music, solo singing, small group singing, singing new songs, and music activities outside of the school setting.

## Orff Schulwerk and Musical Preference

Much research has been conducted regarding music teaching methodologies and their influence on musical preference. The two studies of the effect of the Orff approach on preference of musical style show mixed results. One found that teaching approach affected preference, and the second found no relationship between instructional treatment and preference for specific styles of music.

Bondurant-Koehler (1995) investigated the effects of selected modes of instruction and gender on music preferences in third and fifth grade elementary school children. The methodologies included Orff, Kodály, and traditional music education. A total of 1,370 students

used a five-point Likert scale to rate their preference for eighteen 40-second musical excerpts. These data were then compared to their teachers teaching methodology. Overall preferences for the six music style categories—ethnic, art, avant-garde, jazz-improvisation, pop-rock, and country-western—differed significantly among mode of instruction, grade level, and gender. The Orff mode yielded significantly higher preferences for avant-garde and country-western music, while Kodály yielded significantly higher preferences for art, ethnic, jazz-improvisation, and pop-rock.

A study by McKoy (1998) focused specifically on the effect of an Orff Schulwerk-based and a traditional instructional approach on fourth-grade students' preferences for an untaught selection of indigenous folk music of Ghana. Subjects were 39 students enrolled in two intact fourth-grade classes in a North Carolina public elementary school. Each class was randomly assigned to receive music instruction based on Orff Schulwerk pedagogy or traditional music instruction. The researcher instructed both treatment groups. Results of the study revealed no significant difference between groups as a result of instructional treatment.

## Orff Schulwerk and Non-Musical Concepts

Additional research has been conducted to determine the effect of the Orff approach upon non-musical concepts. Results are mixed. As the studies discussed below indicate, the Orff teaching approach seems to have positive effects on self-concept and mathematics and no significant effect on memory development and spatial ability. The research is inconclusive regarding the effects of the Orff teaching approach on reading.

Grant (1991) investigated the effect of Orff Schulwerk and traditional music education instruction on the memory development of 66 fifth grade students. After an analysis of the data

gathered by way of the *Visual Aural Digit Span Test*, Orff Schulwerk instruction was not proven to have a significant effect on memory development.

A study by Taetle (1999) examined the effect of three modes of instruction (e.g. Orff Schulwerk, active singing, and passive listening) on spatial ability. Kindergarteners were randomly assigned to three groups and attended music classes for 30 minutes twice per week for a treatment period of four months. No significant difference in spatial ability was found between groups.

A study by Whitehead (2001) was designed to determine the effect of music instruction, using the Orff Schulwerk process, on mathematics scores of secondary students in West Virginia. Twenty-eight students ranging from 11 to 17 years of age were randomly assigned to three groups. The full treatment group received music instruction for 50 minutes five times per week for 20 weeks. The limited treatment group received music instruction. At the conclusion of the study, the full treatment group was found to have made a significant gain in mathematics scores over the other two groups.

Two studies examined the relationship between specific teaching methodologies and reading ability. Lu (1986) compared the reading performance of first grade students taught using a Kodály-Orff musical teaching approach with others taught only traditional reading instruction. The experimental subjects were taught reading using Kodály and Orff techniques by the researchers for one and a half hours per week over a three-month period within the total reading instruction time. The control subjects received an equal amount of time in the traditional reading context. No significant difference was found between posttest scores of both groups in total

reading achievement, letter recognition, letter "sound" recognition, vocabulary, and comprehension.

Kelley (1981) examined the effect of various instructional methods on the reading/language arts performance of first grade students. The students were randomly assigned to one of two treatment groups, Orff Schulwerk music instruction and visual arts instruction, and a control group. The music and art groups met for 30 minutes three times per week from December to May. Quantitative and qualitative findings revealed that Orff Schulwerk music instruction significantly enhanced reading and language development in first grade students in favor of the treatment group.

Two additional studies investigated the relationship between the Orff approach and selfconcept. Barker (1981) sought to determine whether a significant difference in self-concept existed between learning disabled students taught using Orff Schulwerk and a traditional music education approach. Findings revealed a significant difference in favor of the experimental group in the areas of behavior, intellectual and school status, popularity, and total scores. A significant difference was not found between groups in the areas physical appearance and attributes, anxiety, and happiness and satisfaction.

Cheek (1979) sought to determine whether psychomotor experiences, based on the approaches of Orff and Kodály, would influence self-concept of fourth grade students. A significant difference was observed in self-concept for the experimental group.

#### <u>Summary</u>

Several limitations are revealed by the aforementioned research. Rather than using the Orff approach in isolation, many of the studies combined it with other approaches such as Kodály and Dalcroze, or focused on only one specific aspect of Orff Schulwerk, such as

movement. In addition, much of the research did not define the traditional approach to music education as practiced in elementary schools across the United States today. Finally, the previous studies had relatively short treatment periods and sampled a single grade level.

#### CHAPTER 3

#### **RESEARCH DESIGN AND DEVELOPMENT**

The study utilized an experimental and control group and is based on a nonequivalent control group design (Stanley & Campbell, 1963). All subjects in the experimental and control groups were administered a pretest and posttest with a treatment period of 13 lessons within a time span of five months. T-tests were utilized to provide more information about the data. The purpose of this study was to measure the musical achievement of third, fourth, and fifth grade students taught using an Orff-centered approach and those taught using a more traditional music teaching approach as outlined in the music textbook series, *Share the Music* (Bond et al., 1998).

### Subjects

The study site was a public elementary school (K-5) in Hoover, Alabama, a suburb of Birmingham. Enrollment was 648 with 1% of the student population receiving free or reducedprice lunch. The ethnic composition of the school consisted of Caucasian (88%), Asian (6%), African-American (5%), and Hispanic (1%) students. Percentile ranks on the Stanford 10, a norm-referenced academic achievement test, for third grade students were 73% in math, 75% in language, and 68% in reading. For fourth grade students, percentile ranks were 82% in math, 89% in language, and 82% in reading and for fifth grade students, percentile ranks were 80% in math, 78% in language, 76% in reading, and 73% in science. All students had music class once per week for 30 minutes.

Because of instructional scheduling, both experimental and control groups consisted of intact classes. For the control group, the study utilized two classes from each of the following

grade levels: third grade (n=32, 16 girls and 16 boys), fourth grade (n=41, 19 girls and 22 boys), and fifth grade (n=40, 24 girls and 16 boys) for a total of 113 subjects. For the experimental group, the study utilized three third grade classes (n=46, 19 girls and 27 boys), three fourth grade classes (n=59, 30 girls and 29 boys), and two fifth grade classes (n=40, 21 girls and 19 boys) for a total of 145 subjects. The total number of subjects in the study was 258 students.

## Music Achievement Test 1

The *Music Achievement Test 1 (MAT*) developed by Richard Colwell served as the measurement tool. The *MAT* was designed to measure student musical achievement in grades three through college (Colwell, 1968). In addition, the *MAT* is well regarded in the field of music education for the purpose of assessing mastery of musical concepts (Boyle, 1995; Radocy, 1995). The *MAT* contains four tests with multiple parts, which can be administered as a whole or individually without affecting the reliability (Colwell, 1968). Because of grade level restrictions, only the first test was utilized in this study.

The first test, which spans approximately 18 minutes, assesses the knowledge of students in grades 3 through 12 in the following areas: pitch discrimination, interval discrimination, and meter discrimination. In the first part of the pitch discrimination subtest, which contains 15 items, the student indicates whether the second pitch sounds higher than, lower than, or the same as the first pitch. The second part of the pitch discrimination subtest contains 10 items, in which the student indicates the lowest pitch in a group of three pitches. The first part of the interval discrimination subtest contains 10 tonal patterns of 3 pitches each and the second part contains 18 phrases. In both parts, the student identifies whether the pitches move by steps or skips. The student may also indicate if he or she is unsure of the correct answer. The meter discrimination

subtest asks the student to specify whether a musical excerpt is performed in duple or triple meter. Again, the student may indicate if he or she is unsure of the correct answer.

Content validity for the *MAT* was determined by compiling a list of objectives and skills found in music textbooks, courses of study, curriculum guides, college music education textbooks, and texts on the psychology of music. A conference of school music authorities was held to determine the areas of basic proficiency to be included in the tests. Reliability coefficients for each grade level were computed by Kuder-Richardson 21 (Colwell, 1968). The first test using a sample of 1,683 fifth grade students yielded a reliability coefficient of 0.838 with a standard deviation of 10.81.

#### Procedure

Before beginning the study, the researcher met with the principal at Greystone Elementary School to discuss the possibility of conducting research with third, fourth, and fifth grade students enrolled in the school. The principal agreed to host the study and approval was granted from the Superintendent of Hoover City Schools. Permission to proceed with the study was then sought and granted from the Institutional Review Board at the University of Georgia (IRB). Consent forms were sent to parents or guardians and students in the third, fourth, and fifth grade requesting permission for the students to participate in the study during the first week of January 2007 (see Appendix A). The letters were signed and returned to the homeroom teachers and in turn, to the researcher.

The researcher administered a pretest to third, fourth, and fifth grade students during the first week of January 2007 in regularly scheduled music class. Every effort was made to create a quiet and effective testing environment. The treatment period began the following week and

continued through the second week of May 2007. Interruptions in the treatment included school holidays, sickness, and conference attendance. The posttest was completed immediately after the treatment period during the third week of May 2007. The procedures for administering the pretest were also utilized for the posttest.

Subjects in the control group were taught using a curriculum consisting of traditional, eclectic lessons found in a well-known basal text published by McGraw-Hill, *Share the Music* (see Appendix B, C, and D). This text integrates Kodály, Orff, Dalcroze, and traditional music education in the teaching of music concepts and skills through singing, listening, moving, creating, music literacy, critical thinking, and assessment (Bond et al., 1998). *Share the Music* was chosen for the study, because the text was adopted by the state in which the researcher teaches, is readily available to all students, and utilizes an eclectic curriculum.

Lessons were taught as specifically outlined in the teacher's edition of the series. The textbooks and the accompanying resource materials belonging to the school were utilized throughout the treatment period. A recorder belonging to each student was also used. The recordings for the series were an integral part of all lessons. Listening and music reading was a part of most lessons.

Treatment for the experimental group consisted of a teaching approach based on the philosophy of Carl Orff (see Appendix B, C, and D). Orff believed that participation in music should begin before or concurrently with the intellectual process of learning notation (Hall, 1960).

The primary resources included the five volumes of *Music for Children* by Carl Orff and Gunild Keetman and adapted by Margaret Murray (n.d.), as well as two well-respected Orff Schulwerk curriculum guides – *Discovering Orff* by Jane Frazee (1987) and *Exploring Orff* by

Arvida Steen (1992). In addition, materials obtained through Orff Schulwerk teacher training courses and Orff Schulwerk workshops served as lesson sources (see Appendix E). An Orff instrumentarium belonging to the school was utilized throughout the treatment period. A recorder belonging to each student and a guitar were also incorporated into the lessons. Singing, movement, and instrument playing were part of most lessons.

The researcher served as teacher for both groups in order to control for teacher effect. Further, each group received the same number of instructional minutes for each musical concept. Before the study began, three sample lesson plans were critiqued by a panel of three elementary music specialists using a rubric developed by the researcher to determine whether or not the same music concepts were being adequately addressed through the differing approaches (see Appendix F). The results were affirmative. The teachers agreed with an average of 7.67 out of 10 that each lesson was appropriate with respect to age and ability level. The teachers agreed with an average of 9.33 out of 10 that each lesson addressed the same musical concept. During the course of the study, detailed lesson plans were compiled, along with relevant field notes.

#### **CHAPTER 4**

#### ANALYSIS AND RESULTS

The purpose of this study was to measure the musical achievement of third, fourth, and fifth grade students taught using an Orff-centered music teaching approach and a more traditional approach outlined in the music textbook series, *Share the Music*. Comparisons of pretest/posttest scores were made with published norms for fourth and fifth grade. This chapter will also present comparisons between pretest and posttest data for each subtest.

On the advice of the Academic Computing Center through the College of Education at the University of Georgia, it was decided a priori that t-test procedures were most appropriate for the purposes of this study for analyzing the data. *The Statistical Package for the Social Sciences* (SPSS) version 15.0 was utilized in the analyses.

## Pretest Data

The pretest data were derived from third, fourth, and fifth grade students' scores on the *MAT* prior to the beginning of treatment. This information allowed the researcher to compare levels of student musical achievement, prior to the start of the study, with the published norms and to compare the relative music achievement of the control and experimental groups in each grade level. Published *MAT* norms are not available for third grade. Mean scores were calculated for each subsection of the *MAT* by experimental and control group in all grade levels. T-tests for two independent samples were performed to determine if any significant difference existed between groups. The Bonferroni procedure was used to safeguard against the inflation of the error rate due to multiple test comparisons resulting in a significance level of 0.01.

Table 2 provides descriptive statistics for third grade students' performance on each subtest of the pretest by group. Subjects in the experimental group scored higher than the control group on the pitch discrimination subtest and the overall score, while the control group scored higher on the interval and meter discrimination subtests. A comparison of third grade pretest data is also provided in Table 2. T-test analysis revealed no statistical significant difference between the two groups on all variables.

# Table 2

	Control		Experimental			
	Group		Group			
	(n = 32)		(n = 46)			
Test	М	SD	М	SD	t	р
Pitch Discrimination	10.47	3.96	12.63	4.80	-2.10	0.039
Interval Discrimination	12.13	3.60	12.07	3.33	0.08	0.940
Meter Discrimination	14.50	4.95	13.39	4.97	0.97	0.335
Test 1 Total	37.09	9.09	38.30	7.78	-0.63	0.530

Descriptive Statistics and T-Test Comparisons of Third Grade Pretest Scores

No significant differences.
Descriptive statistics for the fourth grade students' performance on each subtest of the pretest are provided in Table 3. T-test means comparison revealed no significant difference between groups on each subtest and the overall score for Test 1.

### Table 3

Descriptive Statistics and T-Test Comparisons of Fourth Grade Pretest Scores

	Control		Experimental			
	Group		Group			
	(n = 4	41)	(n =	59)		
Test	М	SD	М	SD	t	р
Pitch Discrimination	13.78	4.48	12.27	4.39	1.68	0.097
Interval Discrimination	12.63	4.16	11.25	2.47	1.91	0.062
Meter Discrimination	13.37	3.67	12.44	4.09	1.16	0.249
Test 1 Total	39.78	8.85	35.97	5.89	2.59	0.011

No significant differences.

Table 4 provides the means for the experimental and control groups and for the published norms for fourth grade. Both groups of students scored below the published norms of the *MAT*.

Group Means of Fourth Grade Students' Pretest Scores Compared to MAT Published Norms

Test	MAT M	Control M	Experimental M
Pitch Discrimination Subtest	14.97	13.78	12.27
Interval Discrimination Subtest	14.71	12.63	11.25
Meter Discrimination Subtest	15.34	13.37	12.44
Test 1 Total	45.02	39.78	35.97

T-test means comparisons of fifth grade students' pretest scores revealed no significant difference between groups. Descriptive statistics are provided in Table 5.

# Table 5

Descriptive Statistics and	d T-Test	Comparisons	of Fifth	Grade	e Pretest	Scores
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	Control		Experimental			
	Group		Gro	Group		
	(n = 40)		(n = 40)			
Test	М	SD	М	SD	t	р
Pitch Discrimination	13.80	4.03	15.53	5.41	-1.62	0.110
Interval Discrimination	12.13	3.64	12.65	2.99	-0.71	0.483
Meter Discrimination	13.20	3.32	14.10	4.53	-1.01	0.314
Test 1 Total	39.13	6.58	42.28	8.09	-1.91	0.060

No significant differences.

The mean scores for the fifth grade control and treatment groups, as well as the fifth grade published norms for the first test of the *MAT*, are given in Table 6. Students generally scored lower than the published norms, although the experimental group scored higher than the control group.

### Table 6

Group Means of Fifth Grade Students' Pretest Scores Compared to MAT Published Norms

Test	MAT M	Control M	Experimental M
Pitch Discrimination Subtest	16.39	13.80	15.53
Interval Discrimination Subtest	15.18	12.13	12.65
Meter Discrimination Subtest	15.86	13.20	14.10
Test 1 Total	47.43	39.13	42.28

### Posttest Data

The posttest data consisted of students' scores on the *MAT* following treatment. This information was used to compare student musical achievement with *MAT* norms for fourth and fifth grades and to compare the musical achievement of the experimental and control groups for third, fourth, and fifth grades. Mean gain scores were computed for each subsection of the test by group in all grade levels. T-tests were performed by grade level to determine whether a significant difference in music achievement existed between groups.

A comparison of third grade students' posttest scores by group is provided in Table 7. Students in the control group scored higher than the students in the experimental group on all subtests, as well as the overall score. Descriptive statistics for the third grade experimental and control groups are provided in Table 8. No statistical significance was found between the scores for the two groups on each subtest and the overall score for Test 1.

### Table 7

Descrip	otive Statistics	and <i>T</i> -Test	Comparisons	of Third	Grade	Posttest	Scores
				./			

	Control	Group	Experimer	ntal Group		
	(n =	32)	(n =	46)		
Test	М	SD	М	SD	t	р
Pitch Discrimination	13.94	4.91	13.85	4.58	0.08	0.934
Interval Discrimination	12.69	3.64	12.07	2.86	0.84	0.401
Meter Discrimination	13.81	4.86	12.83	3.99	0.98	0.329
Test 1 Total	40.44	8.47	38.74	7.44	0.94	0.352

No significant differences.

The difference between pretest and posttest scores for the third grade control and experimental groups is presented in Table 8. Mean gain scores were higher for the control group on all subtests and the overall score with the exception of the meter discrimination subtest, which exhibited a regression. The mean gain scores also indicated a regression in the meter discrimination subtest for the experimental group, although the regression was not as great for the control group.

### Table 8

Difference between Pretest and Posttest Means of the Control and Experimental Groups in Third Grade

Test	С	Control Group			Experimental Group			
	Pretest	Posttest	Mean	Pretest	Posttest	Mean		
	Mean	Mean	Gain	Mean	Mean	Gain		
Pitch	10.47	13.94	3.47	12.63	13.85	1.22		
Discrimination								
Interval	12.13	12.69	0.56	12.07	12.07	0.00		
Discrimination								
Meter	14.50	13.81	-0.69	13.39	12.83	-0.56		
Discrimination								
Test 1 Total	37.09	40.44	3.35	38.30	38.74	0.44		

T-tests for paired samples were used to determine whether there was significant difference in mean gain scores from pretest to posttest for third grade students in the experimental and control groups. No significant difference was found for the mean gain scores between the two groups on each subtest and the overall score (see Table 9).

### Paired Sample T-Test Comparisons of Pretest-Posttest Mean Gain Scores for Third Grade

### Students

Test	Control Group	Control Group Experimental Group		t	р
	Mean Gain	Mean Gain			
Pitch Discrimination	3.47	1.22	76	2.38	0.020
Interval Discrimination	0.56	0.00	76	0.00	0.998
Meter Discrimination	-0.69	-0.56	76	-0.09	0.925
Test 1 Total	3.35	0.44	76	1.36	0.178

No significant differences.

Table 10 provides descriptive statistics for fourth grade students in the control and experimental groups on the posttest. T-test comparisons revealed no significant difference between groups on the pitch and meter discrimination subtests, but a significant difference was found for the interval discrimination subtest and overall score for Test 1 in favor of the control group.

Descriptive Statistics and T-Test Comparisons of Fourth Grade Posttest Scores

	Con	trol	Experin	nental		
	Gro	oup	Gro	up		
	(n = 41)		(n =	(n = 59)		
Test	М	SD	М	SD	t	р
Pitch Discrimination	15.10	4.27	14.37	4.36	0.83	0.411
Interval Discrimination	13.80	3.69	11.31	2.78	3.86	0.000*
Meter Discrimination	16.49	4.26	14.64	4.11	2.17	0.032
Test 1 Total	45.39	8.74	40.32	6.98	3.22	0.002*
* <i>p</i> < 0.01						

The difference between pretest and posttest scores for the fourth grade control group and experimental group are provided in Table 11. A gain from pretest to posttest is shown in all areas for both groups.

Analyses using t-tests for paired samples revealed no significant difference in mean gain scores between the two groups on each subtest and the overall score for Test 1 (see Table 12).

# Difference between Pretest and Posttest Means of the Control and Experimental Groups in

### Fourth Grade

Test	Со	ntrol Group		Experimental Group			
	Pretest	Posttest	Mean	Pretest	Posttest	Mean	
	Mean	Mean	Gain	Mean	Mean	Gain	
Pitch	13.78	15.10	1.32	12.27	14.37	2.10	
Discrimination							
Interval	12.63	13.80	1.17	11.25	11.31	0.06	
Discrimination							
Meter	13.37	16.49	3.12	12.44	14.64	2.20	
Discrimination							
Test 1 Total	39.78	45.39	5.61	35.97	40.32	4.35	

Posttest means and *MAT* norms for the fourth grade control and experimental groups are provided in Table 13. The control group scored higher than the *MAT* norms on the pitch and meter discrimination subtests, as well as the overall score. Students in the control and experimental groups scored lower than the published norms on all other subtests.

# Paired Sample T-Test Comparisons of Pretest-Posttest Mean Gain Scores for Fourth Grade Students

Test	Control Group	Control Group Experimental Group		t	р
	Mean Gain	Mean Gain			
Pitch Discrimination	1.32	2.10	98	-1.10	0.273
Interval Discrimination	1.17	0.06	98	1.61	0.110
Meter Discrimination	3.12	2.20	98	0.77	0.441
Test 1 Total	5.61	4.35	98	0.80	0.427

No significant differences.

# Table 13

# Group Means of Fourth Grade Students' Posttest Scores Compared to MAT Published

Norms

Test	MAT Mean	Control Mean	Experimental Mean
Pitch Discrimination Subtest	14.97	15.10	14.37
Interval Discrimination Subtest	14.71	13.80	11.31
Meter Discrimination Subtest	15.34	16.49	14.64
Test 1 Total	45.02	45.39	40.32

Descriptive statistics for fifth grade students in the control and experimental groups on the posttest are provided in Table 14. T-test comparisons revealed no significant difference between scores on any subtest or the overall test.

### Table 14

	Con	trol	Experi	imental		
	Group		Group			
	(n =	40)	(n =	= 40)		
Test	М	SD	М	SD	t	р
Pitch Discrimination	15.63	4.27	15.70	5.28	-0.07	0.945
Interval Discrimination	11.65	4.33	11.60	3.14	0.06	0.953
Meter Discrimination	16.25	4.40	15.55	4.61	0.70	0.489
Test 1 Total	43.53	8.05	42.85	9.27	0.35	0.730

Descriptive Statistics and T-Test Comparisons of Fifth Grade Posttest Scores

No significant differences.

The difference between pretest and posttest scores for the fifth grade control group and experimental group is presented in Table 15. A gain in the mean scores was found from pretest to posttest in the areas of pitch and meter discrimination for both groups.

# Difference between Pretest and Posttest Means of the Control and Experimental Groups in Fifth Grade

Test	C	Control Group		Experimental Group		р
	Pretest	Posttest	Mean	Pretest	Posttest	Mean
	Mean	Mean	Gain	Mean	Mean	Gain
Pitch	13.80	15.63	1.83	15.53	15.70	0.17
Discrimination						
Interval	12.13	11.65	-0.48	12.65	11.60	-1.05
Discrimination						
Meter	13.20	16.25	3.05	14.10	15.55	1.45
Discrimination						
Test 1 Total	39.13	43.53	4.40	42.28	42.85	0.57

T-test analyses showed no significant difference in mean gain scores between the two groups on each subtest and the overall score (see Table 16).

Mean scores for fifth grade students on the posttest are compared to *MAT* published norms in Table 17. The control group scored higher than the published norms on the meter discrimination subtest. The control group and experimental group scored lower than the *MAT* norms on all other subtests.

# Paired Sample T-Test Comparisons of Pretest-Posttest Mean Gain Scores for Fifth Grade Students

Test	Control Group	Experimental Group	df	t	р
	Mean Gain	Mean Gain			
Pitch Discrimination	1.83	0.17	78	2.01	0.048
Interval Discrimination	-0.48	-1.05	78	0.76	0.448
Meter Discrimination	3.05	1.45	78	1.23	0.222
Test 1 Total	4.40	0.57	78	2.20	0.031

No significant differences.

### Table 17

Group Means of Fifth Grade Students' Posttest Scores Compared to MAT Published Norms

Test	MAT Mean	Control Mean	Experimental Mean
Pitch Discrimination Subtest	16.39	15.63	15.70
Interval Discrimination Subtest	15.18	11.65	11.60
Meter Discrimination Subtest	15.86	16.25	15.55
Test 1 Total	47.43	43.53	42.85

T-tests for paired samples were used to determine whether there was significant difference in mean gain scores from pretest to posttest for all grade levels in the experimental and control groups. A significant difference was found for mean gain scores between groups on the pitch and meter discrimination subtests and the overall score. No significant difference was found for the mean gain scores between groups on the interval discrimination subtest (see Table 18).

## Table 18

Paired Sample T-Test Comparisons of Pretest-Posttest Mean Gain Scores for All Grade Levels

# $by\ Group$

Test	Control Group	Experimental Group	df	t	р
	Mean Gain	Mean Gain			
Pitch Discrimination	2.11	1.29	257	-6.96	0.000*
Interval Discrimination	0.42	-0.27	257	-0.13	0.895
Meter Discrimination	2.02	1.12	257	-4.11	0.000*
Test 1 Total	4.54	2.07	257	-6.30	0.000*
$\frac{1}{2}$ n < 0.01					

\* *p* < 0.01

### CHAPTER 5

# SUMMARY, DISCUSSION, CONCLUSIONS, AND RECOMMENDATIONS

### <u>Summary</u>

The purpose of this study was to measure the musical achievement of third, fourth, and fifth grade students taught using an Orff-centered approach and a more traditional approach outlined in the music textbook series, *Share the Music*. All subjects in the experimental and control groups were administered a pretest and a posttest with a treatment period of 13 lessons within five months. The *Music Achievement Tests (MAT)* developed by Richard Colwell served as the measurement tool.

No significant difference was found between groups on the pretest for third grade students. While there was no significant difference between groups on any subtest of the posttest or the overall score, third grade students in the control group showed the largest gain on the pitch and interval discrimination subtests, as well as the overall score. A regression was noted for both groups on the meter discrimination subtest. No significant difference was found in a comparison of pretest-posttest mean gain scores for third grade students.

Students in the fourth grade scored lower than the published *MAT* norms on all areas of the pretest, but the control group scored higher than the experimental group on all subtests and the overall score for Test 1. No significant difference was found between groups on the overall score or any of the subtests. On the posttest, students in the control group scored higher than the *MAT* norms on the pitch and meter discrimination subtests, as well as the overall score. Neither group scored higher than the *MAT* norms on the interval discrimination subtest. The control

group scored higher than the experimental group on all subtests, as well as the overall score. A significant difference was found between groups on the posttest for the interval discrimination subtest and the overall score in favor of the control group. No significant difference was found between groups for the pitch and meter discrimination subtests. Students in the control group showed the largest gain from pretest to posttest on the interval and meter discrimination subtests, as well as the overall score. The experimental group showed the largest gain on the pitch discrimination subtest. No significant difference was found in a comparison of pretest-posttest mean gain scores for fourth grade students.

Students in the fifth grade scored lower than the published *MAT* norms on all areas of the pretest, but the experimental group scored higher than the control group on all subtests and the overall score for Test 1. No significant difference was found on the pretest between groups for any subtest or the overall score. On the posttest, students in the control group scored higher than the *MAT* norms on the meter discrimination subtests. Neither group scored higher than the *MAT* norms on the pitch and interval discrimination subtests, as well as the overall score. The control group scored higher than the experimental group on interval and meter discrimination subtests and the overall score. The experimental group scored higher than the control group on the pitch discrimination subtest. No significant difference was found between groups for any subtest or the overall score on the posttest. Students in the control group showed the largest gain from pretest to posttest on the pitch and meter discrimination subtests, as well as the overall score. A regression was noted for both groups on the interval discrimination subtest. No significant difference was found in a comparison of pretest-posttest mean gain scores for fifth grade students.

Third, fourth, and fifth grade students in the control group showed the largest increase in mean gain scores from pretest to posttest on all subtests, as well as the overall score. A regression was noted for the experimental group on the interval discrimination subtest. A significant difference in mean gain scores was found for students in third, fourth, and fifth grades on the pitch and meter discrimination subtests and the overall score in favor of the control group. No significant difference was found for the interval discrimination subtest.

### Discussion

It was interesting to note the significant difference in mean gain scores between the two groups on the pitch and meter discrimination subtests and the overall score in favor of the control group. This result might be attributed to the fact that the types of activities provided for the control group were more similar to items on the posttest than those activities provided for the treatment group. It is conceivable that the knowledge derived from these in-class activities might have influenced control group performance on the posttest. The types of activities differed in five significant ways.

First, the control group utilized more printed music in their lessons (e.g., sheet music, notation in music textbook), while the experimental group learned music mainly through rote teaching. When written music was used with the experimental group, the notation was shown on a visual. Students were not provided with individual copies. In addition, the control group had more opportunities to write notation than the experimental group and, as a result, could read music with greater ease than the experimental group by the end of the treatment period. More experience with reading and writing notation might explain the higher mean gain scores for the control group, since these methods offer an advantage to visual and tactile learners, not available to the same type learners in the experimental group.

Second, the experimental group had fewer listening experiences than the control group. Listening activities provided for the experimental group primarily consisted of learning by rote and analyzing musical performances of the teacher and other classmates while the control group listened to recorded music and used listening maps. In that the *MAT* requires listening to prerecorded tracks in order to answer corresponding items, listening to recorded music may have influenced posttest findings, resulting in higher mean gain scores for the control group on the pitch and meter discrimination subtests and the overall score.

In addition, the genres of music experienced by the treatment groups varied greatly. The experimental group mainly utilized American folk music of one time period, while the control group experienced multicultural music and music of various time periods. This variation in styles and time periods, which encompassed a variation in keys, meters, rhythms, melodies, and lyrics, as assessed by the *MAT*, might have resulted in a difference in mean gain scores, in favor of the control group, on the pitch and meter discrimination subtests and the overall score.

Opportunities for instrument playing and movement were limited for students in the control group compared to students in the treatment group, who experienced instrument playing and movement consistently throughout the treatment period. Although instrument playing and movement offered students a different way to learn about musical concepts, the Orff approach did not focus on the development of music skills, such as singing, listening, reading, and writing, as measured by the traditional assessment tool or *MAT*. This might possibly explain the significant difference in mean gain scores in favor of the control group on the pitch and meter discrimination subtests and the overall score

Finally, small groups were utilized more in the experimental group than in the control group due to the variation in treatment. Whole group instruction was primarily used for the

control group in accordance with the lessons outlined in *Share the Music*. In the experimental group, students were taught movement or assigned instrument parts in small groups based on ability level, as prescribed by the Orff process. The effect of small or whole group instruction on music achievement was not within the scope of this study and its influence on the results is unclear.

The statistically significant difference found in favor of the control group on the pitch and meter discrimination subtests and the overall score could also be a possible result of additional practice by the control group. The objectives outlined for the experimental group took more time to achieve than the objectives for the control group, due to the types of activities undertaken with the experimental group. The Orff-based lessons were generally more in depth and took multiple weeks to teach, whereas the traditional music education lessons covered conceptual objectives on a more surface level and did not take as much time to complete. For example, preparing students to perform a piece on barred instruments took more time than singing along with a recording. While the amount of instructional time was the same for both groups, there were more opportunities for singing, playing, reading, notating, and listening, with varying materials for the control group.

Because the control group experienced several methods through *Share the Music*, both groups had familiarity with some aspects of the Orff process. However, the control group's experiences were extremely limited, since only the basic program, written for music teachers with non-specialized training or general education teachers, was utilized. When teaching from the teacher's edition, the basic program, noted by a pink triangle, were the only portions taught to the control group. Barred instruments were never utilized with the control group during the study. When teaching from the recorder masters, the procedures section was the only portion

taught to the control group. The supplemental Orff-based components or extensions included in the teacher's edition were not taught to the control group. *Share the Music* includes many opportunities for more participatory learning similar to the Orff process, which were not utilized in this study.

The use of intact classes was an unavoidable problem of the study due to scheduling and other constraints of the research site. The lack of random assignment might have affected the results, in regards to student attitude, outside of school music activities, and other factors.

In addition to quantitative findings, the attitudes and actions of school stakeholders towards the teaching approaches were observed. Other teachers, administrators, and parents were more receptive to the Orff approach than the traditional music education approach. Many times, classroom teachers and administrators would observe classroom performances on instruments with the treatment group when picking up their classes, but teachers and administrators did not stay to observe when the control group was being taught. This might be due to the performance aspect of the Orff approach in contrast with the traditional music education approach or to scheduling conflicts. Parents and administrators seemed to prefer the performance opportunities of the Orff approach and the ability of the Orff approach to reach different types of learners. A few parents of students in the treatment group commented on how much their children enjoyed attending music class. No comments were received from parents of students in the control group.

Researcher-observed attitudinal differences between groups did not accurately reflect the mean gain scores between groups. Classroom observations revealed that the students in the experimental group participated more and had a better attitude than students in the control group. Students in the control group would ask why they did not use the barred instruments each time they came to music. They also complained about using the textbooks and supplementary

materials. When students were asked to get a textbook, they often groaned. A few students in each class of the control group would not participate in the lesson, but sat quietly and listened to the teacher. The majority of students in the experimental group were excited when attending music class, and all students participated. These attitudinal differences could be attributed to non-measured characteristics, such as personalities of the classes or outside of school music activities, although no significant difference was shown between groups on pretest/posttest mean gain scores.

Although the Orff approach was not shown to be more effective than the traditional approach in this study, the findings reveal that the experimental group made gains in music achievement in most cases, although those gains were not statistically significant. Mean gain scores from the pretest to the posttest for the experimental group increased in all areas, except on the subtest for interval discrimination. The smallest increase in mean gain scores occurred in this subtest for the control group.

### Conclusions

Findings of this study support results found in previous research conducted by Siemens (1969), who determined that students involved in an Orff instructional program showed significantly more improvement in interest and attitude than students involved in a traditional music education program, although students in the latter group performed significantly better on a music achievement measure.

In contrast to this research, other studies (Boras, 1988; Hudgens, 1987; Young, 1967) revealed no significant difference between students taught with the Orff-Schulwerk approach and traditional music education methods in the acquisition of musical skills. In addition, this study is in contrast to other research (Hensley, 1981), which found that students taught using the

Memphis City Curriculum Guide, based on the Orff and Kodály philosophies, performed significantly better on certain aspects of music achievement than students taught from a published songbook series.

The inconclusive nature of the previous studies taken in their entirety could reveal the complexities inherent in experimental research based in school settings. Many variables could not be controlled in this and previous studies, including scheduling, the use of intact classes, out of school music activities, and attitudes and personalities of stakeholders, which could make comparisons of teaching approaches increasingly difficult.

### Recommendations

Central aims of this study were to contribute to the sparse body of knowledge involving Orff Schulwerk and to generate research areas in need of future inquiry. With the continued popularity of the Orff approach to music education, the need for studies that examine its impact on student achievement grows. Other studies in different teaching situations and lasting for longer periods of time would be appropriate. Studies focusing on the attitudinal differences of students taught using the Orff approach compared with other approaches should also be investigated. Longitudinal studies that examine the influence of Orff Schulwerk on student development and music achievement over time are strongly encouraged.

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APPENDIX A

# CONSENT FORMS

January 3, 2007

Dear Parents:

I have thoroughly enjoyed working with your children during music class this year. I would like to explain a project that I will be undertaking the remainder of the school year with most third, fourth, and fifth grade classes. I am working on my doctorate in music education at the University of Georgia, and my research project is in the area of music methods and curriculum.

The music program will be based on two different music teaching approaches, which I am already using to some extent with the music classes. Each presents sound teaching procedures and opportunities to experience the same music concepts. Your child's class will be assigned at random to one of the two teaching approaches. I will meet with each class during their scheduled music class, one time per week for thirty minutes, for the remaining portion of the school year.

A music achievement test will be given to each child before the program begins, and again in the spring, to determine the effectiveness of each teaching approach. All the scores will be kept confidential and can be accessed by you at any time. Individual names will not be listed in the final draft or any publication of this research. The music achievement tests will be destroyed after the final defense of the dissertation. Your completion of the attached letter authorizes your child's participation in this study.

This project has been explained and approved by Dr. Black, who has also informed Mr. Andy Craig, Interim Superintendent. If you have any questions, I will be happy to talk to you. You may e-mail me at swomack@hoover.k12.al.us or call me at (205) 317-5010.

Thank you for your attention. There are two attached forms that should be signed and returned to your child's homeroom teacher by January 12, 2007. Keep this letter and copies of the two forms for you records. Again, I am looking forward to further working with the students at Greystone Elementary School.

Sincerely,

Sara Womack

#### Research Study Consent Form

I give permission for my child, \_\_\_\_\_\_\_, to take part in a research study titled "A Comparison of the Effects of Orff Schulwerk and Traditional Music Instruction on Selected Elements of Music Achievement in Third, Fourth, and Fifth Grade Students," which is being conducted by Sara Womack, from the School of Music, University of Georgia, (205) 317-5010, under the direction of Dr. Roy Legette, School of Music, University of Georgia, (706) 542-2756. I do not have to allow my child to be in this study if I do not want to. My child can refuse to participate or stop taking part at any time without giving any reason, and without penalty. I can request to have the results of the participation, to the extent that it can be identified as my child's, removed from the research records or destroyed.

The purpose of the study to measure the musical achievement of third, fourth, and fifth grade students taught using an Orff-centered approach and those taught using a more traditional music teaching approach as outlined in the music textbook series, Share the Music.

Students participating in this research may gain additional music knowledge and skills.

If my child and I volunteer to take part in this study, my child will be asked to do the following things:

- Take the *Music Achievement Test* as a pre-test during regularly scheduled music class lasting approximately twenty minutes.
- Participate in regularly scheduled music classes for the remainder of the school year.
- Take the *Music Achievement Test* as a post-test during regularly scheduled music class lasting approximately twenty minutes.

No discomforts or stresses are expected.

No risks are expected.

The results of this participation will be confidential, and will not be released in any individually identifiable form, unless otherwise required by law. All information gained during the course of the study will be kept confidential and will be destroyed after the final defense of the dissertation. The only people who will know that my child is a research study participant are members of the research team.

The researcher will answer any further questions about the research, now or during the course of the project, and can be reached by telephone at: (205) 317-5010.

I understand the procedures described above. My questions have been answered to my satisfaction, and I agree for my child to participate in the study. I have been given a copy of this form

Name of Researcher Telephone: (205) 317-5010 E-Mail: swomack@hoover.k12.al.us	Signature	Date
Name of Parent/Guardian	Signature	Date
Student's Name	Homeroom Teacher	
Please sign both copies.	keep one and return one to the researcher.	

Additional questions or problems regarding your child's rights as a research participant should be addressed to The Chairperson, Institutional Review Board, University of Georgia, 612 Boyd Graduate Studies Research Center, Athens, Georgia 30602-7411; Telephone (706) 542-3199; E-Mail Address IRB@uga.edu. January 3, 2007

### Minor Assent Form

Dear Participant,

You are invited to participate in my research project titled, "A Comparison of the Effects of Orff Schulwerk and Traditional Music Instruction on Selected Elements of Music Achievement on Third, Fourth, and Fifth Grade Students." Through this project I am learning about the best way to teach boys and girls about music.

If you decide to be part of this, you will allow me to work with you on developing skills in music. You will take a test that will show how much you learn about music. You will allow me to take notes while you are making music. Your participation in this project will not affect your grades in school or your status in music class. I will not use your name on any papers that I write about this project. However, because of your participation you may improve your knowledge of music. I hope to learn something about music that will help other children in the future.

If you want to stop participating in this project, you are free to do so at any time. You can also choose not to answer questions that you don't want to answer.

If you have any questions or concerns you can always ask me or call my teacher, Dr. Roy Legette, at the following number: (706) 542-2756.

Sincerely,

GAMM

Sara Womack School of Music, University of Georgia (205) 317-5010

I understand the project described above. My questions have been answered and I agree to participate in this project. I have received a copy of this form.

Signature of the Participant

Date

Please sign both copies, keep one and return one to the researcher.

Additional questions or problems regarding your rights as a research participant should be addressed to The Chairperson, Institutional Review Board, University of Georgia, 612 Boyd Graduate Studies Research Center, Athens, Georgia 30602-7411; Telephone (706) 542-3199; E-Mail Address IRB@uga.edu

### APPENDIX B

## THIRD GRADE LESSON PLANS

The sequential procedures of the control group lesson plans were derived from the basic program of *Share the Music*. The sequential procedures of the experimental group lesson plans were derived from well-respected Orff materials (see Appendix E).

Week 1			
Conceptual Objective: Rhythm patterns are groupings of durations that move in relation to the			
beat.			
Control Group	Treatment Group		
Behavioral Objective: Given selected listening	Behavioral Objective: Given a selected rhyme,		
examples, students will be able to accurately	students will demonstrate ability to accurately		
identify whether the teacher is performing	differentiate between the rhythm of the words		
(clapping) the rhythm of the beat or the rhythm	and the rhythm of the beat by playing different		
of the melody.	instruments on each at the appropriate time.		
Source: Share the Music pages 1-7	Source: "Think of a Fly," Level I, Jim		
	Solomon, page 51		
Materials: student textbooks. Share the Music	Materials: hand drums, rhythm sticks, triangles		
recordings cd1.1-5			
Students:	Students:		
1 Listen to teacher read the poem "Rope	1 Watch teacher perform movements and		
Rhyme" (nage 1)	discuss what the possible text of "Think		
2 Name some of their favorite games and	of a Fly "		
discuss whether or not they have a	2 Mirror the teacher's movements		
steady beat	3 Learn the words to "Think of a Fly" by		
3 Read the text on page 2	rote and perform with movements		
4 Listen to the recorded lesson "Beat and	4 Stand and step the steady beat in place		
Rhythm of the Words of 'Jambo' " and	while speaking the rhyme with the		
identify whether the steady beat or	movements		
rhythm of the words accompanies the	5 Watch teacher demonstrate the partner		
song	movements of the B section with a		
5. Sing "Jambo" (page 2) while patting	student helper.		
the steady beat and tell how the beat	6 Perform the rhythm of the words of the		
differs from the rhythm of the words.	A section on drums and the steady beat		
6 Sing "Jambo" and change from	of the B section on wood instruments		
clapping the rhythm of the words when	for the first 8 beats and metal		
the teacher's hand is raised to patting	instruments for the second 8 beats.		
the steady beat when the teacher's hand	7. Perform in ABABAB etc. with		
is lowered.	changing partners.		
7. Listen to "Bonefish. Bluebird" and tap			
the beat bars on page 3.			
8. Listen again and pat the steady beat on			
their shoulders to determine if they hear			
beats where there are no words.			
9. Clap the rhythm of the words and			
compare that rhythm with the steady			
beat.			
10. Clap the rhythm of the words while			
looking at page 3, holding thumbs up			
on the beat of silence on each line.			
11. Read about "The Name Game" (page 4)			

and perform the movement	
12 Play "The Name Game" and identify	
the bests on which they snoke and on	
which boots they were silent	
12 Imitate the maximum for "Ohee Agi	
15. Initiate the movement for Obba Asi Ma Naa" (naga 6) while listening to the	
ive is a (page 6) while listening to the	
recording.	
14. Determine whether they patted the	
rhythm or the steady beat.	
15. Listen and imitate the pronunciation on	
the recording.	
16. Identify on which beats of the rhythm	
pattern there is no sound by raising	
thumbs-up on beats three and four.	
17. Listen to "Jambo" as the teacher claps	
the rhythm.	
18. Determine whether the teacher is	
clapping the rhythm or the steady beat.	
19. Explain their reasoning.	
20. Read page 7 and discuss the questions	
and fine art piece.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 2		
Conceptual Objective: Tones of a melody may move up, down, or remain the same.		
Control Group	Treatment Group	
Behavioral Objective: Given several musical	Behavioral Objective: After discussion of	
selections, students will identify melodic	melodic direction, students will apply	
direction verbally and through movement.	knowledge by correctly performing a melody	
	on barred instruments.	
Source: Share the Music pages 3, 8-13	Source: "Chinese Ribbon Dance," Mallet	
	Madness pages 60-61	
Materials: student textbooks, Share the Music	Materials: barred instrument visual, barred	
recordings cd 1:3, 6-9	instruments, gong	
Students:	Students:	
1. Say "Bonefish, Bluebird" (page 3)	1. Listen to "Chinese Ribbon Dance"	
while patting the steady beat.	performed by the teacher on the	
2. Listen to the recorded lesson, "Pitch in	xylophone with their eyes closed.	
Bonefish, Bluebird," and echo lines at	2. Listen to the piece again with their eyes	
different pitch levels.	open.	
3. Move both hands higher or lower to	3. Discuss the upward, downward, and	
show the pitch level they hear.	repeated patterns in the music.	
4. Read page 8.	4. Watch the teacher demonstrate the	
5. Listen to and discuss the first verse of	melodic pattern on a poster of a barred	
"Rocky Mountain."	instrument while the students sing the	
6. Trace the melodic direction on pages 8	accompanying number pattern.	
and 9 as they listen to verse I again.	5. Volunteer and individually play the	
7. Describe the pitch direction of the first	melody on barred instruments as a	
verse.	demonstration for the class.	
8. Sing the first verse.	6. Practice the melody on barred	
9. Sing the first verse again with their	instruments during a few minutes of	
eyes closed while drawing the shape of	free practice time.	
the melody in the air.	/. Follow the teacher as they are led	
10. Kead page 10.	through the melody by slowly singing	
11. Listen to Sabre Dance and trace the	each note name.	
snape of the main theme on page 10	8. Work gradually to increase the tempo.	
12 Listen to the "Sahra Danas" theme	9. Learn the bass bars and temple block	
12. Listen to the Sabre Dance theme	part as an introduction and	
while fullning in place on the repeated	10. Derform the piece while adding a strike	
in the molectly and lowering their	10. Perform the piece while adding a surke	
hadios into a low lovel twisted shape	11 Perform the piece ten times in a row	
on the downward moving melody at the	without pause	
end of the main theme	without pause.	
13 Discuss the symbols on the "Sabre		
Dance" listening man		
14 Follow the listening man as they listen		
to the piece and discuss whether "Sabre		

Dance" is exciting.	
15. Listen to "Long-Legged Sailor" and	
discuss the text.	
16. Read page 12 and trace the shape of the	
notated melody.	
17. Compare the shape of the notated	
"Long-Legged Sailor" melody to the	
melodic shape of the theme on page 11.	
18. Sing the song while patting their	
shoulders in time with the beat on the	
highest pitches.	
19. Sing "Rocky Mountain" silently and	
explain which words are sung on the	
upward-moving pitches and downward-	
moving pitches.	
20. Sing "Long-Legged Sailor" (page 13).	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 3		
Conceptual Objective: Tones of a melody may move up, down, or remain the same.		
Control Group	Treatment Group	
Behavioral Objective: Students will	Behavioral Objective: Students will	
demonstrate knowledge of melodic direction	demonstrate ability to accurately perform	
by accurately identifying like patterns in a	melodies on barred instruments.	
selected piece of music.		
Source: Share the Music pages 12-13, 24-27	Source: "Chinese Ribbon Dance," <i>Mallet</i> <i>Madness</i> pages 60-61	
Materials: student textbooks, Share the Music	Materials: barred instrument visual, barred	
recordings cd 1:7, 9, 16, 17	instruments, gong, ribbon streamers	
Students:	Students:	
1. Review the first section of "Long-	1. Review the melody on barred	
Legged Sailor" on page 12 and listen to	instruments while the teacher brings	
the instrumental track of the recording.	attention to the upward, downward, and	
2. Trace the shape of the melody with	repeated melodic patterns.	
their hands as they sing the first section	2. Play soft glissandos on the barred	
On the syllable <i>loo</i> .	instruments and foll on the gong and	
5. Trace the shape of the melody as they follow the notation and lyring on page	rises	
12	2 Parform the piece ten times in a row	
15. A Read about "Kuma San" on page 24	5. Ferrorin the piece ten times in a row with the added introduction	
4. Kedu about Kulla Sali oli page 24.	A Imitate the teacher's movements to	
bands each time they hear the words	4. Initiate the teacher's movements to	
Kuma san	nerformed with the music	
6 Listen again as they draw the shape of	5 Half of the students will perform on the	
the melody in the air each time they	instruments while the other half	
	nerform the movement	
7 Listen to the recorded lesson	6 Rotate parts with ribbon dancers	
"Pronunciation for 'Kuma San' " and	becoming instrument players and	
learn the song	instrument players becoming ribbon	
8. Read page 25 and sing the song.	dancers and perform again.	
9. Identify the pitches in the tinted		
measures by touching legs, waist, and		
shoulders for the lowest, middle, and		
highest pitches.		
10. Sing the song while performing the		
movements sung in the song.		
11. Read about the staff on page 26.		
12. Trace the notation on page 24 while		
they sing "Kuma San."		
13. Sing the tinted measures of "Rocky		
Mountain" on page 27.		
14. Identify other pitch patterns in "Rocky		
Mountain" that are the same as the		
printed pattern. 15. Sing all verses of "Rocky Mountain" (page 27).		
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Method of Assessment: documented	Method of Assessment: documented	
observation	observation	

We	ek 4
Conceptual Objective: Beat is grouped by accent	t.
Control Group	Treatment Group
Behavioral Objective: Upon listening to an unknown recording, students will verbally identify beat groupings (meter).	Behavioral Objective: Given a musical selection in triple meter, students will accurately perform dotted half-note values as additive note values (group of three quarter notes)
Source: Share the Music pages 174-179	Source: "Bells in the Steeple " Level I. Jim
Sources source are invested public to the	Solomon, page 110
Materials: student textbooks, <i>Share the Music</i> recordings cd 4:40-43, cd5:1-3	Materials: rhythm visuals, barred instruments, suspended cymbal
Students:	Students:
<ol> <li>Read "They Were My People" (page 175) silently as the teacher reads it aloud.</li> <li>Listen to "African Postal Workers" and discuss what the people may be doing.</li> <li>Listen again after finding out the song is performed by postal workers as they stamp and sort letters.</li> <li>Explain why they think people make music why they work.</li> <li>Read page 176.</li> <li>Listen to the recorded lesson, "Introducing 'Tititorea'" and perform a pat-clap-snap pattern to prepare for the Maori stick game.</li> <li>Listen to the song.</li> <li>Recall and perform the bounce-catch motion for beats grouped in sets of two and describe the motion.</li> <li>Listen to and hum the melody of "Tititorea" while performing the pat-clap-snap motion and describe the</li> </ol>	<ol> <li>Softly pat the steady beat while the teacher sings the song.</li> <li>Discuss which words last for three beats.</li> <li>Discuss the visuals including three quarter notes equaling one dotted half note.</li> <li>Learn the song by rote.</li> <li>Sing the song, while the teacher ensures they are sustaining the dotted quarter notes for three beats.</li> <li>Read and play the bass metallophone part, consisting of dotted half notes, while singing.</li> <li>Discuss the posted visual of one dotted half note equaling one dotted half rest.</li> <li>Read and play the glockenspiel part, consisting of dotted half rests and quarter notes.</li> <li>Add cymbal part.</li> <li>Perform orchestration with singing.</li> </ol>
<ul> <li>motion as beats grouped in sets of three.</li> <li>10. Listen to the recorded lesson, "Pronunciation for 'Tititorea' " and learn the words of the song.</li> <li>11. Read page 177 and hum the melody as they perform the pat-clap-snap movement with imaginary sticks to emphasize triple meter.</li> <li>12. Hum the melody again changing from</li> </ul>	

the pat-clap-snap movement to the	
floor-freeze-freeze movement.	
13. Listen to "One, Two, Three!" to find	
how the beats are grouped and tell what	
occurs on beat 4 of the first measure of	
each line.	
14. Move by hitting one fist into the palm	
of the other hand on the downbeat and	
shaking hands three times in the air on	
beats 2, 3, and 4.	
15. Read page 179, listen to "Cuequita de	
los Coyas," and identify which beat	
grouping they heard.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 5		
Conceptual Objective: Rhythm patterns are groupings of durations that move in relation to the		
beat.		
Control Group	Treatment Group	
Behavioral Objective: Students will accurately	Behavioral Objective: Students will accurately	
identify and clap sixteenth-note patterns in a	identify and perform patterns containing	
selected melody.	sixteenth notes.	
Source: Share the Music pages 132-137	Source: "Chicken in the Fence Post," Level I,	
	Jim Solomon, pages 112-113	
Materials: student textbooks, Share the Music	Materials: barred instruments	
recordings cd 4:1-5		
Students:	Students:	
1. Listen to the teacher read "Alphabet	1. Listen to the teacher sing "Chicken in	
Stew" (page 132).	the Fence Post" and determine which	
2. Read the lyrics of "Frog Went A-	phrases are the same.	
Courtin' " (pages 134-135) and discuss	2. Echo sing the phrases that repeat.	
the story.	3. Sing phrases 1 and 3 while the teacher	
3. Listen to the recorded lesson,	sings phrases 2 and 4.	
"Learning to Sing 'Frog Went A-	4. Sing the entire song.	
Courtin' " and echo four-beat phrases	5. Pat the rhythm of the words while	
of the verse and refrain.	singing.	
4. Sing the song while clapping the steady	6. Set up barred instruments in F	
beat.	pentatonic.	
5. Pat the rhythm of <i>Rinktum body minchy</i>	7. Determine how many rests come after	
<i>cambo</i> with alternating hands.	the third Chicken in the fence post.	
6. Listen to a few verses and only sing	8. Practice the rhythm of <i>Chicken in the</i>	
Rinktum body minchy cambo.	fence post can't dance Josie and label	
7. Sing the song, patting the rhythm	sixteenth notes with a visual.	
<i>Rinktum body minchy cambo</i> as the	9. Perform the following form: A (class	
pattern occurs.	sings), B (rhythm of the words on	
8. Read page 136 and listen to "I'll Rise	temple blocks), A (class sings), C	
When the Rooster Crows."	(rhythm of the words on barred	
9. Sing the song.	instruments).	
10. Say the rhythm ostinato while patting	10. Learn the Orff arrangement for the A	
with alternate hands.	section by rote.	
11. Form two groups. One group pats with	11. Perform the entire arrangement in	
the beat and the other group says the	ABAC form with temple blocks and	
ostinato four times.	barred instruments.	
12. Discuss the number of sounds on each		
beat.		
13. Listen to "Biddy, Biddy" and answer		
the questions on page 137.		
14. Sing the song and pat only the rhythm		
of the words with four sounds to a beat.		
15. Discuss the words that have been sung		

during class that have four sounds per beat.	
Method of Assessment: documented	Method of Assessment: documented

We	eek 6
Concentual Objective: Musical form is based on the principle of repetition and contrast	
Control Group	Treatment Group
Behavioral Objective: Students will	Behavioral Objective: Give a selected song.
demonstrate ability to correctly identify	students will indicate knowledge of song form
(verbally) antecedent and consequent phrases.	by accurately alternating performance media at
	each section change.
Source: Share the Music pages 138, 158-161	Source: "Listen to the Glockenspiels," <i>Mallet</i>
	Madness page 63
Materials: student textbooks, Share the Music	Materials: improvisation visual, barred
recordings cd 4:5, 6, 21	instruments
Students:	Students:
1. Listen while the teacher reads "The	1. Discuss the differences in timbre and
Secret Song" aloud and discuss the	construction between xylophones,
questions and answers in the poem.	metallophones, and glockenspiels.
2. Sing verse 1 of "The Old Sow's Hide"	2. Warm up on the instruments to further
on page 138 while standing during	determine the differences.
phrases 1 and 3 and sitting during	3. Define improvisation as creating your
phrases 2 and 4.	own music rather than reading notes
3. Look at page 159 and identify which	from notation.
phrase is a question.	4. Improvise on instruments for 16 beats.
4. Sing the question aloud and the answer	5. Individually share their improvisations.
silently.	6. View the visual of 16 beats and watch
5. Improvise an 8-beat body percussion	as the teacher points to each beat while
rhythm to replace phrase 2 of the song.	a student improvises.
6. Listen to the recorded lesson, "Sample	7. Take special note of the rest on beat 16
Questions and Answers" and identify	of the improvisation.
and discuss the best musical answer.	8. Improvise on the barred instruments
7. Read the second rhythmic question and	when directed to do so by the text of
answer and answer the questions on	the song as sung by the teacher.
page 159.	9. Perform the song in ABABAB etc.
	form with the teacher singing on the A
	section and improvising in instrument
	groups on the B section.
Method of Assessment: documented	Method of Assessment: documented

We	ek 7
Conceptual Objective: Musical form is based on	the principle of repetition and contrast.
Control Group	Treatment Group
Behavioral Objective: Given an antecedent	Behavioral Objective: Give a selected song,
phrase performed by the teacher, students will	students will indicate knowledge of song form
demonstrate knowledge of phrase structure by	by accurately alternating performance media at
accurately improvising the consequent phrase.	each section change.
Source: Share the Music pages 158-161	Source: "Listen to the Glockenspiels," Mallet
	Madness page 63
Materials: student textbooks, Share the Music	Materials: improvisation visual, barred
recordings cd 4:5, 6, 21	instruments
Students:	Students:
1. Review question and answer	1. Review improvisations on barred
improvisations.	instruments.
2. Sing "Biddy, Biddy" (page 161) and	2. Learn the melody of the A section by
name the words on which they find	rote.
sixteenth notes.	3. Learn the instrument accompaniment
3. Listen as the teacher claps the rhythmic	by rote while singing the melody of the
question on page 160 and individually	A section.
improvise answers.	4. Improvise on the barred instruments
4. Describe how a rhythmic question and	when directed to do so by the text of
its answer should be alike and how they	the song and following the direction of
should be different.	the teacher.
5. Perform their improvisations as an	5. Perform the song in ABABAB etc.
introduction and coda for "Biddy,	form with singing and playing
Biddy."	instruments on the A section and
	improvising in instrument groups on
	the B section.
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	ek 8
Conceptual Objective: Beat is grouped by accent	
Control Group	Treatment Group
Behavioral Objective: Given a selected	Behavioral Objective: Upon listening to a
listening example, students will accurately	selection sung by the teacher, students will
identify which sections in duple versus triple	accurately identify the meter.
meter.	
Source: Share the Music pages 196-199	Source: "Piping Hot" and "My Horses Ain't
	Hungry," Discovering Orff pages 183-186
Materials: student textbooks, Share the Music	Materials: barred instruments, woodblocks
recordings cd 5:15, 17-20	
Students:	Students:
1. Listen to "Ton Moulin" and perform a	1. Perform locomotor movements to a
down-up-up movement to describe the	drum played by the teacher in duple
placement of the downbeat.	meter and triple meter.
2. Discuss which section did not match	2. Discuss and notate the differences
the movement.	between duple meter and triple meter.
3. Read page 196 and imitate the teacher's	3. Listen to the teacher perform rhythmic
movements, pat-clap-snap-snap, to	patterns on a drum to determine if the
"Mabel, Mabel" in duple meter.	music is in duple meter or triple meter.
4. Echo the teacher saying the speech	4. Listen to "Piping Hot" (page 183)
piece as they perform the body	performed by the teacher in duple meter
percussion pattern.	and in triple meter and discuss the
5. Listen to "Mabel, Mabel" in triple	differences.
meter and perform the body percussion,	5. Perform nonlocomotor movements to
pat-clap-snap.	"Piping Hot" in duple meter and triple
6. Echo the teacher saying the speech	meter.
piece as they perform the body	6. Listen to teacher sing "My Horses
percussion pattern in triple meter.	Ain't Hungry" (page 185-186) and
7. Read pages 198-199.	determine if the song is in duple meter
8. Listen to "Allemande Tripla" while	or triple meter.
following the listening map and	7. Learn the Orff arrangement for "My
determine which sections are in duple	Horses Ain't Hungry" by rote.
meter and which sections are in triple	8. Perform the arrangement in triple
meter.	meter.
9. Answer the questions on page 199.	
10. Discuss ways in which the notation	
tells them there are different meters in a	
piece of music.	
11. Clap the rhythmic ostinato to	
accompany the triple meter section of	
"Allemande Tripla."	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

e principle of repetition and contrast.
Treatment Group
Behavioral Objective: After guided practice on
mprovising 8-beat "question/answer" phrases,
students correctly improvise a rondo form.
Source: "Listen," Strike It Rich pages 6-7
Materials: barred instruments, triangles
Students:
1. Listen to the teacher sing "Listen" and
echo phrase by phrase to learn the
melody.
2. Sing the melody and snap on the rests.
3. Transfer the snaps to a triangle.
4. Learn the text for sections B, C, and D
from the visuals presented by the
teacher.
5. Pat the rhythm of the words with
alternating hands for sections B, C, and
D.
6. Discuss the characteristics of
xylophones, metallophones, and
glockenspiels.
7. Prepare the Orff arrangement by
playing the parts using body
percussion.
8. Transfer the parts to instruments set up
in a C pentatonic scale by improvising
the pitches using the rhythm of the
0 Perform the rondo
Vethod of Assessment: documented
observation

Week 10		
Conceptual Objective: Musical form is based on the principle of repetition and contrast.		
Control Group	Treatment Group	
Behavioral Objective: After guided discussion	Behavioral Objective: After learning to play	
of rondo form, students will accurately identify	the A section, students will create B and C	
the form as presented in "Ah-Choo!".	sections on non-pitched instruments and	
	perform all sections as a rondo.	
Source: Share the Music pages 164-165, 370-	Source: "Simple Simon," 3 <sup>ra</sup> Rhyme's the	
371	Charm pages 18-19	
Materials: student textbooks, Share the Music	Materials: barred instruments, cabasa, pie	
recordings cd 4:24-25, cd 9:31	visuals	
Students:	Students:	
1. Listen to the A section of "Los	1. Warm up vocally by echoing the	
mariachis."	teacher singing short patterns using mi,	
2. Read pages 164-165 and discuss the	re, and do.	
form of the music.	2. Echo sing the melody in measures 2	
3. Listen to the piece while following the	and 4 of "Simple Simon."	
listening map.	3. Sing measures 2 and 4 while teacher	
4. Listen to the rondo form of the piece	sings measures 1 and 3.	
while patting the steady beat each time	4. Sing measures 1 and 3 while teacher	
they hear the A section.	sings measures 2 and 4.	
5. Listen as students discuss some of their	5. Sing entire song.	
tavorite folk tales.	6. Learn the Orff arrangement, which	
6. Read the words of "Ah-Choo!" and	becomes the A section, on bass	
discuss the story.	xylophone, contra bass bars, alto	
/. Listen to "An-Choo!" while following	xylophone, and cabasa, by rote.	
the notation.	7. Perform the A section twice,	
8. Outline the form of the song as rondo	internalizing the melody on the repeat.	
Iorm.	8. Create the B section by combining	
9. Sing each section of the song.	ravorite pies into a word chain and	
	performed on unpitched instruments	
	twice.	
	9. Create the C section in the same	
	10 Derform in rende form	
Mathad of Assassment: documented	10. Fellolill III folido folill.	
abservation	abservation	
<ol> <li>Kead pages 164-165 and discuss the form of the music.</li> <li>Listen to the piece while following the listening map.</li> <li>Listen to the rondo form of the piece while patting the steady beat each time they hear the A section.</li> <li>Listen as students discuss some of their favorite folk tales.</li> <li>Read the words of "Ah-Choo!" and discuss the story.</li> <li>Listen to "Ah-Choo!" while following the notation.</li> <li>Outline the form of the song as rondo form.</li> <li>Sing each section of the song.</li> </ol>	<ul> <li>re, and do.</li> <li>2. Echo sing the melody in measures 2 and 4 of "Simple Simon."</li> <li>3. Sing measures 2 and 4 while teacher sings measures 1 and 3.</li> <li>4. Sing measures 1 and 3 while teacher sings measures 2 and 4.</li> <li>5. Sing entire song.</li> <li>6. Learn the Orff arrangement, which becomes the A section, on bass xylophone, contra bass bars, alto xylophone, and cabasa, by rote.</li> <li>7. Perform the A section twice, internalizing the melody on the repeat.</li> <li>8. Create the B section by combining favorite pies into a word chain and performed on unpitched instruments twice.</li> <li>9. Create the C section in the same manner.</li> <li>10. Perform in rondo form.</li> </ul>	

Week 11		
Conceptual Objective: The unique organization of musical elements creates a musical style.		
Control Group	Treatment Group	
Behavioral Objective: After guided practice,	Behavioral Objective: After guided practice,	
students will correctly manipulate musical	students will correctly manipulate musical	
elements to create new arrangements of given	elements to create new arrangements of given	
selections.	selections.	
Source: Share the Music pages 262-265	Source: "Tideo," As American as Apple Pie	
	pages 10-12	
Materials: student textbooks, Share the Music	Materials: barred instruments, jingle bells,	
recordings cd 6:32-35	temple blocks, visual of rhyme	
Students:	Students:	
1. Read "America, the Beautiful" (page	1. Listen while the teacher sings the song	
262) and discuss the meaning of the	while students follow the text on the	
lyrics.	Visual.	
2. Clap the mything ostinato and locate	2. Echo sing by phrase to learn the	
2 Pat the rhythm as an ostinato while	3 Isolate special words one at a time and	
singing the song	5. Isolate special words one at a time and transfer to body percussion	
4 Listen to "You're a Grand Old Flag"	4 Transfer body percussion to	
(nage 263) march in place to the steady	instruments used in the Orff	
beat and wave an imaginary flag on the	arrangement	
longer sounds	5 Learn the bass xylophone and	
5. Listen to "This Land is Your Land"	metallophone part by imitating the	
(page 264-265).	teacher.	
6. Sing the refrain aloud and the tinted	6. Perform the arrangement.	
words silently.	7. Internalize the words and perform the	
7. Sing the tinted words aloud and the	arrangement.	
refrain silently.		
8. Compare the lines in the refrain by		
tracing the shape of the melody as they		
follow the notation.		
9. Form two groups with group 1 singing		
the refrain as group 2 sings the verse to		
discover the melodies are the same.		
10. Sing the entire song.		
11. Listen to "America" (page 265) and		
sing along when able.		
Nicinod of Assessment: documented	Nethod of Assessment: documented	
observation	observation	

Week 12	
Conceptual Objective: Beat is grouped by accent	t.
Control Group	Treatment Group
Behavioral Objective: After guided practice,	Behavioral Objective: After guided practice,
students will correctly sing and play body	students will correctly speak, play body
percussion in six-eight time.	percussion, play instruments, sing, and move in
	six-eight time.
Source: Share the Music pages 104-107	Source: "Soda Pop," <i>D.R.U.M.</i> page 38 and
	"Down the River," As American as Apple Pie
	page 13
Materials: student textbooks, Share the Music	Materials: tubanos, shaker, cowbell, vibraslap,
recordings cd 3:1, 3, 7, 14, 15	bass drum, guitar
Students:	Students:
1. Listen to "Veinte y tres" (page 104) and	1. Listen to the teacher speak "Soda Pop"
recall the people who sang it.	in six-eight time.
2. Choose and perform a locomotor	2. Identify the different kinds of soda pop
movement to fit the unequal rhythm as	in the text of the rhyme.
2 Listen to the recorded lesson	3. Listen to the leacher speak the rhyme
5. Listen to the recorded lesson, "Dropupointion for 'Vointo y trog' " and	again and clap on the basses.
loarn the song	4. Speak the mynie and chap on the
A Sing the song in Spanish then in	5 Echo pat the rhythm a phrase at a time
Finalish	6 Pat the rhythm of the entire rhyme
5 Listen to "Charlie "	7 Pat the rhythm of the rhyme and tan
6 Sing the first verse of "Charlie" (nage	knee on the basses
105) while patting the beat in six-eight	8 Transfer body percussion to drums
time with alternating hands	9 Learn the accompanying parts by rote
7. Read page 105.	10. Perform entire arrangement with the
8. Read about the dotted quarter rest.	cowbell part serving as an interlude
9. Play the ostinato on body percussion	between the repeat of the A section.
while singing "Charlie."	11. Listen as the teacher sings "Down the
10. Listen to the melody of "Row, Row,	River" in six-eight time.
Row, Your Boat" without the words.	12. Learn the song by rote.
11. Sing the song while clapping the	13. Imitate the teacher's movements to
rhythm of the words.	learn the dance.
12. Read page 107 and clap the rhythms.	14. Perform the dance and sing while the
13. Identify which rhythms match the	teacher accompanies on the guitar.
rhythm of the words.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	ek 13
Conceptual Objective: The unique organization	of musical elements creates a musical style.
Control Group	Treatment Group
Behavioral Objective: Students will correctly	Behavioral Objective: After guided practice,
sing, move, play body percussion, and verbally	students will correctly move to a folk dance in
analyze music in a variety of styles.	an old-time musical style.
Source: Share the Music pages 304-309	Source: "Alabama Gal," Chimes of Dunkirk
	page 10
Materials: student textbooks, Share the Music	Materials: Chimes of Dunkirk recording
recordings cd 7:31-36	
Students:	Students:
1. Read page 304.	1. Listen to the teacher sing the song and
2. Bounce an imaginary ball to a steady 3-	discuss the possible meaning of the text
beat rhythm while saying bounce-catch-	2. Learn the song by rote.
hold.	3. Sing along with the recording.
3. Listen to "In the Good Old	4. Imitate the teacher's movements to
Summertime" while conducting in	learn the dance with a partner.
triple meter.	5. Perform the dance along with the
4. Sing the song.	recording to experience the role of folk
5. Read page 305 and listen to "In the	music.
Good Old Summertime" in barbershop	
style.	
6. Conduct in triple meter to notice the	
freer rhythm.	
7. Compare the two styles of the song by	
discussing the differences in voice and	
rhythm.	
8. Listen to "Cotton Eyed Joe" while	
patting the steady beat during the A	
section and clapping during the B	
Section.	
9. Read page 507. 10. Liston to the "A aitrón" and pat the	
strong boat with the right hand on the	
right thigh	
11 Listen again while nicking up an	
imaginary lemon from the floor and	
nlacing it in front of the neighbor to the	
right	
12 Listen to the recorded lesson	
"Pronunciation for 'Acitrón' " and sing	
the song.	
13. Read the top of page 309	
14. Pat the steady beat while listening to	
"Doudlebska Polka" and identify the	

form as ABC. 15. Read page 308 and listen to "Jamaican	
Jump-Up."	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

## APPENDIX C

## FOURTH GRADE LESSON PLANS

The sequential procedures of the control group lesson plans were derived from the basic program of *Share the Music*. The sequential procedures of the experimental group lesson plans were derived from well-respected Orff materials (see Appendix E).

Week 1	
Conceptual Objective: Tonal movement may progress by steps, by skips, or by repetition of the	
same tone.	
Control Group	Treatment Group
Title: "Reviewing GAB"	Title: "Boat to Brazil"
Source: Share the Music Recorder Master 7	Source: "Boat to Brazil," Recorder Routes
	pages 4-5
Materials: copies of Recorder Master 7, Share	Materials: visual, recorders
the Music recording cd 2:14, student textbooks,	
pencils, recorders	
Students:	Students:
1. Echo patterns using G, A, and B with	1. Clap the rhythm of "Boat to Brazil"
their eyes closed.	from the visual.
2. Review by listening to "Swapping	2. Track the melody from the visual as the
Song" (page 68).	teacher plays it on recorder.
3. Practice the patterns on the worksheet	3. Learn the body percussion, snap for B,
individually.	clap for A, and pat for G, by imitating
4. Play one pattern for a partner who will	the teacher's movements.
guess which pattern it is and then,	4. Sing the pitch names while performing
switch roles.	the body percussion.
5. Complete the written activity on the worksheet.	5. Sing the pitch names and finger the pitches on recorder.
	6. Play measures 1-2 and 5-6 while the
	teacher plays measures 3-4 and 7-8.
	7. Play measures 3-4 and 7-8 while the
	teacher plays measures 1-2 and 5-6.
	8. Play the entire song from the visual.
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

Week 2	
Conceptual Objective: Tonal movement may progress by steps, by skips, or by repetition of the	
same tone.	
Control Group	Treatment Group
Title: "Reviewing GAB" (continued)	Title: "Boat to Brazil" (continued)
Source: Share the Music Recorder Master 7	Source: "Boat to Brazil," Recorder Routes
	pages 4-5
Materials: copies of Recorder Master 7, student	Materials: visual, recorders, barred
textbooks, Share the Music recording cd 2:14,	instruments, temple blocks, maracas
recorders	
Students:	Students:
1. Practice playing the accompaniment for	1. Review the recorder part for "Boat to
"Swapping Song."	Brazil."
2. Sing the refrain of "Swapping Song"	2. Listen to the teacher play the
while other students play the	glockenspiel part and discuss the
accompaniment and then, switch roles.	similarities and differences between it
3. Practice with partners to help each	and the melody.
other play "Babylon's Fallin'."	3. Learn the additional instrument parts by
4. Sing "Babylon's Fallin'" while other	rote.
students play with accompaniment and	4. Perform "Boat to Brazil."
then, switch roles.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	eek 3	
Conceptual Objective: Beat is grouped by accent.		
Control Group	Treatment Group	
Title: "Music with a Message"	Title: "Lullaby"	
Source: Share the Music pages 176-181	Source: "Lullaby," Level I, Karen Medley,	
	pages 31-32	
Materials: student textbooks, Share the Music	Materials: visual, recorders, barred	
recordings cd 5:1-4	instruments, jingle bells, claves, triangles	
Students:	Students:	
<ol> <li>Identify ways people communicate messages or ideas to each other.</li> <li>Read the proverbs on page 177 and</li> </ol>	1. Echo on recorder after watching the teacher's body percussion patterns, snap for B, clap for A, and pat for G.	
discuss the messages they contain.	2. Echo the melody for "Lullaby" from	
<ol> <li>Read about "Take Time in Life" (page 178) and listen to the song.</li> </ol>	<ul><li>the teacher's body percussion.</li><li>3. Listen to the teacher sing the song</li></ul>	
<ul> <li>4. Discuss the advice given in the song.</li> <li>5. Learn the song and then, sing it while patting a neighbor's hand with a "high five" gesture on the first beat of each</li> </ul>	<ul> <li>4. Snap on the high words as they sing.</li> <li>5. Clap on the middle words as they sing.</li> <li>6. Pat on the low words as they sing.</li> </ul>	
<ul> <li>6. Identify the time signature and find the time signature in the music.</li> <li>7. With a partner, create a beat pattern that shows the beat in sets of four.</li> </ul>	<ol> <li>Play the entire melody on body percussion.</li> <li>Sing the melody.</li> <li>Sing the melody while fingering the pitches on recorder.</li> <li>Drew the melody on precender.</li> </ol>	
<ul><li>8. Sing the song while performing the four-beat movement patterns with their partners.</li><li>9. Learn the dance for "Take Time in</li></ul>	11. Learn the accompaniment on barred instruments and unpitched percussion instruments by rote.	
Life."	12. Perform the arrangement of "Lullaby."	
10. Listen to the recorded lesson, "Beat Groupings," and find the beats in the A section of "D'Hammerschmieds- gesellen" are in sets of three.		
11. Read page 179 and match the meter signature to the pictures representing sets of beats.		
12. List to the complete selection and identify its meter signature.		
13. Learn the movement and perform it with the music.		
14. Read about and listen to "Calypso" (page 180-181).		
15. Discuss the message of the lyrics.		
16. Listen again and determine the meter.		
17. Perform the beat pattern that represents		

the meter.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	ek 4
Conceptual Objective: Musical form is based on	the principle of repetition and contrast.
Control Group	Treatment Group
Title: "A Rain 'E'-Day Song"	Title: "Sally on the Seesaw"
Source: Share the Music Recorder Master 11	Source: "Sally on the Seesaw," Recorder
	Routes page 15
Materials: copies of Recorder Master 11,	Materials: pitch stack visual, recorders, barred
student textbooks, Share the Music recording	instruments, woodblocks, triangles
cd 2:32, recorders	
Students:	Students:
<ol> <li>Review "I Don't Care If the Rain Comes Down" on page 88.</li> <li>Learn the fingering for E by imitating the teacher.</li> <li>Experiment playing "Rainstorm" using different rhythms, dynamics, and tempos and then, share with the class.</li> <li>Practice the rhythmic and melodic patterns on the worksheet.</li> <li>Play the pattern on <i>I'm gonna dance all</i> <i>day</i> while other students sing "I Don't care If the Rain Comes Down" and then, switch roles.</li> </ol>	<ol> <li>Learn the first motive on recorder by imitating the teacher's movements on a pitch stack.</li> <li>Identify the other places in the song that have the same motive.</li> <li>Learn motives 2 and 4 in the same process.</li> <li>Play each motive in small groups and then, switch groups.</li> <li>Individually play the entire melody.</li> <li>Sing the melody with lyrics and unpitched instruments.</li> <li>Learn the arrangement on barred instruments by rote.</li> <li>Perform the arrangement with recorders, barred instruments, and</li> </ol>
	unpitched percussion instruments.
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 5	
Conceptual Objective: Tonal movement may progress by steps, by skips, or by repetition of the	
same tone.	
Control Group	Treatment Group
Title: "Reviewing EGAB"	Title: "Rainforest Song"
Source: Share the Music Recorder Master 13	Source: "Rainforest Song," <i>Tropical Recorder</i> page 1
Materials: copies of Recorder Master 13, student textbooks, <i>Share the Music</i> recording cd 3:14, pencils, recorders	Materials: visual, recorders, guitar
<ul> <li>Students: <ol> <li>Sing the song, "I's the By" on page 112.</li> <li>Practice the rhythmic and melodic patterns on the worksheet.</li> <li>Complete the worksheet by writing the pitch names under the notes.</li> <li>Play "Yangtze Boatmen's Chantey" on recorder.</li> </ol> </li> </ul>	<ol> <li>Students:         <ol> <li>Listen to the teacher play the melody of "Rainforest Song."</li> <li>Sing the pitch names for the A section from notation while the teacher accompanies on guitar.</li> <li>Sing and finger the pitches for the A section from notation.</li> <li>Play the A section.</li> <li>Use the same process to learn the B section.</li> <li>Finger the pitches while the teacher plays the entire song.</li> <li>Play the entire song while the teacher accompanies on guitar.</li> </ol> </li> </ol>
Method of Assessment: written assessment by student	Method of Assessment: documented observation

Week 6	
Conceptual Objective: Tonal movement may progress by steps, by skips, or by repetition of the	
same tone.	
Control Group	Treatment Group
Title: "Reviewing EGAB" (continued)	Title: "Rainforest Song" (continued)
Source: Share the Music Recorder Master 13	Source: "Rainforest Song," Tropical Recorder
	page 1
Materials: copies of Recorder Master 13,	Materials: visual, recorders, guitar, barred
student textbooks, Share the Music recording	instruments
cd 3:14, recorders	
Students:	Students:
1. Review playing "Yangtze Boatmen's	1. Review playing "Rainforest Song" on
Chantey."	recorder while the teacher accompanies
2. Practice playing "Yangtze Boatmen's	on guitar.
Chantey" as a duet with a partner.	2. Learn the barred instrument parts by
3. Play the duets in partners for the class.	rote.
4. Practice "I's the By" rhythmic and	3. Play the entire song on recorder and
melodic patterns on the worksheet.	barred instruments.
5. Play the patterns while another group	
sings the song and then, switch roles.	
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

Wee	ek 7
Conceptual Objective: Tonal movement may progress by steps, by skips, or by repetition of the	
same tone.	
Control Group	Treatment Group
Title: "A Starry Night with EGAB"	Title: "Rainforest Song" (continued)
Source: Share the Music Recorder Master 19	Source: "Rainforest Song," <i>Tropical Recorder</i> page 1
Materials: copies of Recorder Master 19,	Materials: visual, recorders, guitar, barred
student textbooks, Share the Music recording	instruments, claves, maracas, tubanos
cd 1:6, recorders	
Students:	Students:
<ol> <li>Sing "Mongolian Night Song" on page 9.</li> <li>Clap the rhythmic patterns on the worksheet.</li> <li>Play the rhythmic patterns on low E.</li> <li>Speak the pitch names in part 1 of the "Mongolian Night Song" introduction.</li> <li>Play part 1 of the introduction.</li> <li>Use the same process to play parts 2 and 3.</li> <li>In groups of three, play the "Mongolian Night Song" introduction for the class.</li> <li>Play the three parts together as an introduction and then given the same</li> </ol>	<ol> <li>Review playing "Rainforest Song" on recorder while the teacher accompanies on guitar.</li> <li>Review the barred instrument parts.</li> <li>Play the song on recorder and barred instruments.</li> <li>Learn the unpitched percussion instrument parts by rote.</li> <li>Play the entire arrangement while the teacher accompanies on guitar.</li> </ol>
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	ek 8
Conceptual Objective: Tonal movement may progress by steps, by skips, or by repetition of the	
same tone.	
Control Group	Treatment Group
Title: "Learning to Play D 'D"Lightfully"	Title: "All Hid"
Source: Share the Music Recorder Master 21	Source: "All Hid," <i>Recorder Routes</i> pages 30-31
Materials: copies of Recorder Master 21,	Materials: recorders, pitch stack visual, guitar,
student textbooks, Share the Music recording	bass xylophones
cd 5:5, recorders, pencils	
Students:	Students:
1. Echo rhythmic patterns on low E after	1. Discuss the game, hide and seek.
the teacher.	2. Learn the refrain by rote.
2. Imitate the teacher's fingering of low D	3. Listen to the teacher sing the entire
to learn how to play the pitch on	song and sing along during the refrain.
recorder.	4. Discuss the number of pitches they
3. Clap the rhythmic pattern on the	sang during the refrain.
worksheet and play on low D.	5. Warm up on recorder by following the
4. Play each melodic pattern using low D and low E on the worksheet.	teacher pointing to pitches on the pitch stack.
5. Complete the worksheet by writing the	6. Identify pitch names of the refrain by
pitch names for "Tum-Balalaika"	looking at a visual of the notation.
accompaniment under the notation.	7. Play the questions while the teacher
while fingering the nitches on recorder	Plays the answers while the teacher
7. Play the accompaniment for along with	plays the questions.
"Tum-Balalaika."	9. Divide into three groups and play the
	questions, play the answers, and sing
	the song while the teacher accompanies
	on guitar.
	10. Learn the accompaniment on bass
	xylophone by rote.
	11. Perform the song on recorder and bass
	xylophone while the teacher
	accompanies on guitar.
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

We	ek 9
Conceptual Objective: Beat is grouped by accent	
Control Group	Treatment Group
Title: "Learning a Lullaby"	Title: "Red Sails"
Source: Share the Music Recorder Master 22	Source: "Red Sails," Recorder Routes page 33
Materials: copies of Recorder Master 22,	Materials: recorders, visual, bass xylophone,
recorders, pencils	triangle
Students:	Students:
1. Review the fingering for low D.	1. Listen to the teacher play the bass
2. Partner with another student and play	xylophone part and sing the song.
head and shoulders.	2. Echo sing to learn the song by rote.
3. Play the rhythmic pattern on the	3. Sing the song while the teacher
worksheet on low E and low D.	accompanies on bass xylophone.
4. Complete the worksheet by writing in	4. Listen to the teacher play the melody
pitches E or D in any order.	on recorder.
5. Play the pitch pattern for the class.	5. Play each measure of the song on
6. Play "Fais do-do."	recorder by reading the notation.
7. Play "Fais do-do" while their partner	6. Play measures 1 and 2 while other
plays their pitch pattern composed	students play measures 3 and 4 and
earlier and then, switch roles.	then, switch roles.
8. Play the duets for the class.	7. Play the entire song on recorder.
	8. Learn the bass xylophone and triangle parts by rote
	9 Perform the song with recorder
	singing, bass xylophone, and triangle.
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

Wee	sk 10
Conceptual Objective: Musical texture is the relationship of harmonic and melodic elements of	
music.	
Control Group	Treatment Group
Title: "Signs of the Road with DEGAB"	Title: "Get on Board"
Source: Share the Music Recorder Master 24	Source: "Get on Board," Recorder Routes
	pages 34-35
Materials: copies of Recorder Master 24,	Materials: recorders, pitch stack visual, bass
student textbooks, <i>Share the Music</i> recording	xylophones
cd 2:13, recorders	
Students:	Students:
1. Ecno four-beat patterns after the teacher.	1. Learn the refrain to Get on Board by rote.
2. Play melodic patterns listed on the worksheet.	2. Sing the refrain while the teacher accompanies on bass xylophone.
3. Sing "Down the Road" on page 62.	3. Learn the accompaniment by following
4. Play the motive for "Down the Road"	the teacher pointing to the pitch stack.
by following the notation on the	4. Sing the accompaniment by following
worksheet.	the notation on the visual.
5. Play the A section of "Down the Road" along with the recording	5. Play the accompaniment by following the notation on the visual
6 Improvise during the B section of the	6 Perform the song by singing the refrain
song using pitches D. E. G. A. and B	while the teacher accompanies on bass
and share with the class.	xylophone and then, playing recorders
7. Play the A section and improvise	while the teacher accompanies.
during the B section.	1
8. Play the accompaniment for "Down the	
Road" by following the notation on the	
worksheet.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Wee	k 11
Conceptual Objective: Harmony is created by so	unding two or more tones simultaneously.
Control Group	Treatment Group
Title: "All Around the House with a GACD"	Title: "Jamaican Money Man"
Source: Share the Music Recorder Master 32	Source: "Jamaican Money Man," Tropical
	Recorder pages 2-3
Materials: copies of Recorder Master 32, Share	Materials: recorders, visual, guitar
the Music recording cd 6:10, recorders	
Students:	Students:
1. Echo patterns on high C and high D	1. Listen to the teacher play the melody of
after the teacher.	"Jamaican Money Man."
2. Play the accompaniment two measures	2. Echo sing the pitch names after the
at a time by following the notation.	teacher.
3. Play all four parts to the	3. Sing the pitch names from notation
accompaniment.	while the teacher accompanies on
4. Discuss how the parts are different.	guitar.
5. Play part 1 and 2 and parts 3 and 4 with	4. Sing and finger the pitches from
a partner.	notation.
6. Play the accompaniment with a	5. Play the entire song while the teacher
recording of "Old Joe Clark."	accompanies on guitar.
7. Play the refrain of "Old Joe Clark" by	
following the notation on the	
worksheet.	
8. Play the accompaniment and the refrain	
of "Old Joe Clark" with the recording.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Wee	k 12
Conceptual Objective: Harmony is created by so	unding two or more tones simultaneously.
Control Group	Treatment Group
Title: "Theme and Variations"	Title: "Jamaican Money Man" (continued)
Source: Share the Music Recorder Master 33	Source: "Jamaican Money Man," Tropical
	Recorder pages 2-3
Materials: copies of Recorder Master 33,	Materials: recorders, visual, guitar, barred
recorders	instruments, maracas, cowbell, tubanos, claves
Students:	Students:
1. Play the theme for "Hot Cross Buns"	1. Review the melody of the "Jamaican
by following the notation on the	Money Man" on recorder.
worksheet.	2. Play the song while the teacher
2. Listen to the teacher play variation 1	accompanies on guitar.
and discuss the differences.	3. Learn the barred instrument parts by
3. Play variation 1 by following the	rote.
notation on the worksheet.	4. Play the entire song on recorder and
4. Learn each of the parts for variation 2	barred instruments.
by playing following the notation on	5. Learn the unpitched percussion
the worksheet.	instrument parts by rote.
5. Discuss the differences in the variations	6. Play the entire arrangement while the
and the theme.	teacher accompanies on guitar.
6. Play variation two in groups of three	
with one student playing each part.	
/. Divide into four groups and play each	
of the variations and the theme.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Wee	k 13
Conceptual Objective: Musical texture is the relationship of harmonic and melodic elements of	
music.	-
Control Group	Treatment Group
Title: "Changing Accompaniment"	Title: "Breakfast Delight"
Source: Share the Music pages 223-227	Source: "Breakfast Delight," Hand Drums on
	the Move pages 7-8
Materials: student textbooks, Share the Music	Materials: hand drums
recordings cd 6:5, 7-11	
Students:	Students:
1. Discuss the importance of background	1. Learn the lyrics of the A section by
music.	rote.
2. List different tempos, dynamics, and	2. In four groups, layer in the lyrics one
other changes that might be used in a	part at a time.
movie.	3. Transfer the rhythm of the words to
3. Listen to part 1 of "The Cat Came	hand drums while the teacher discusses
Back" to learn the refrain.	hand drum technique.
4. Read the verses of the song (pages 224-	4. In four groups, layer in the rhythms one
225) and suggest accompaniment ideas	part at a time.
based on the lyrics of each verse.	5. Learn the lyrics of the B section by
5. Listen to the song and sing part 1 of	rote.
each refrain.	6. Transfer the rhythm of the words to
6. Identify a place where the	hand drums and take turns improvising
accompaniment changes.	the answer.
7. Sing "This Pretty Planet" (page 223).	7. Perform the entire arrangement in
8. Listen to the song in canon.	ABAB etc. form.
9. Describe the differences in	
accompaniment.	
10. Read about "Old Joe Clark" (page 226).	
11. Listen to the recorded lesson, "Ostinato	
Samples, and perform with verse 1.	
12. Divide into groups and sing the song	
the appropriate acting to	
12 Transfor the grouph actinate rhuthma to	
a variety of body percussion and	
a variety of body percussion and perform with the song	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

## APPENDIX D

## FIFTH GRADE LESSON PLANS

The sequential procedures of the control group lesson plans were derived from the basic program of *Share the Music*. The sequential procedures of the experimental group lesson plans were derived from well-respected Orff materials (see Appendix E)

Week 1	
Conceptual Objective: Tonal movement may progress by steps, by skips, or by repetition of the	
same tone.	
Control Group	Treatment Group
Title: "Do You Hear Music in the Air?"	Title: "Possum Trot"
Source: Share the Music Recorder Master 3	Source: "Possum Trot," <i>Recorder Routes</i> page 9
Materials: copies of Recorder Master 3, student textbooks, <i>Share the Music</i> recording cd 1:11, recorders	Materials: recorders, visuals, guitar
<ol> <li>Sing "Over My Head" from page 15.</li> <li>Echo sing each pattern as the teacher points to the pitch.</li> <li>Finger each pattern as the teacher points to the pitch.</li> <li>Echo play each of the patterns listed on the worksheet.</li> <li>Divide into two groups with some students singing the song and the other students playing the recorder parts.</li> </ol>	<ol> <li>Clap the rhythm from the visual.</li> <li>Learn the body percussion pattern by rote.</li> <li>Notate the body percussion pattern on a two-line staff.</li> <li>Compare their notation with the visual to resolve any differences.</li> <li>Perform the body percussion pattern.</li> <li>Transfer the body percussion to recorder with snaps to B, claps to A, and pats to G.</li> <li>Play the song measure by measure by following the teacher pointing to the pitch stack.</li> <li>Finger the pitches of the song while singing the pitch names by following notation.</li> <li>Play "Possum Trot" from the visual while the teacher accompanies on guitar</li> </ol>
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	ek 2
Conceptual Objective: Musical form is based on	the principle of repetition and contrast.
Control Group	Treatment Group
Title: "Easy Does It with Low E!"	Title: "Acka Backa"
Source: Share the Music Recorder Master 7	Source: "Acka Backa," Recorder Routes page
	14
Materials: copies of Recorder Master 7, student	Materials: recorders, visual
textbooks, Share the Music recording cd 1:37,	
recorders	
1. Discuss how to play low notes on	1. Listen to the teacher sing the song.
recorder with a characteristic sound.	2. Learn the song by rote.
2. Sing "Funga Alafia" on page 55.	3. Echo sing the pitch names and model
3. Learn to play low E with a	the melodic contour through body
characteristic sound.	levels.
4. Play the following rhythmic and	4. Sing pitch names and finger recorder
melodic patterns by notation on the	by following notation.
worksheet.	5. Play each measure on recorder in small
5. Play individually to ensure	groups.
characteristic sound on low E.	6. Play measures 1 and 2 and measures 3
6. Play the patterns for "Funga Alafia" by	and 4 in small groups and then, switch
following the notation.	roles.
7. Discuss the key to play "Funga Alafia."	7. Play the melody in unison.
8. Play "Funga Alafia" along with the	8. Play the counting out game.
recording.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	ek 3
Conceptual Objective: Musical form is based on	the principle of repetition and contrast.
Control Group	Treatment Group
Title: "All Aboard to Practice EGAB"	Title: "Who Has Seen the Wind?"
Source: Share the Music Recorder Master 8	Source: "Who Has Seen the Wind?," Recorder
	Routes page 19
Materials: copies of Recorder Master 8,	Materials: recorders, visual
recorders, pencils	
Students:	Students:
1. Play a rhythm pattern using E, G, A,	1. Listen to the teacher play "Who Has
and B for the class.	Seen the Wind?" on recorder.
2. Echo rhythm patterns after the teacher	2. Listen again and show the melodic
using body percussion.	contour with arm levels.
3. Play rhythm patterns on the worksheet	3. Divide into four groups, one for each
once on B, once on A, once on G, and once on E.	pitch, as the teacher conducts the melody.
4. Play the rhythm pattern with other	4. Switch pitches and repeat three times.
pitches as listed on the worksheet.	5. Sing the song's pitch names as the
5. Complete the worksheet by notating the	teacher models on body percussion.
melodic patterns on the staff.	6. Discuss how to write the melody on a
6. Check answers to ensure accuracy.	blank staff.
7. Play the patterns on recorder from the	7. Play the suggestions on recorder to
written notation on the worksheet.	check for errors and correct as needed.
	8. Perform the melody of "Who Has Seen
	the Wind?" on recorder.
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

We	ek 4
Conceptual Objective: Musical form is based on	the principle of repetition and contrast.
Control Group	Treatment Group
Title: "All Aboard to Practice EGAB"	Title: "Who Has Seen the Wind?" (continued)
(continued)	
Source: Share the Music Recorder Master 8	Source: "Who Has Seen the Wind?," <i>Recorder</i>
Materials: copies of Recorder Master 8, student textbooks, <i>Share the Music</i> recording cd 2:1, recorders	Materials: recorders, barred instruments
Students:	Students:
<ol> <li>Review the patterns by playing each pattern from the notation on the worksheet.</li> <li>Sing "This Train" on page 58.</li> <li>Listen and finger on recorder as the teacher plays the patterns with the recording of "This Train" while following the plan on the worksheet.</li> <li>Divide into two groups with one group singing the song and the other group playing the patterns on recorder.</li> <li>Switch roles.</li> <li>Listen and finger on recorder as the teacher plays the introduction while following the notation on the worksheet.</li> <li>Play the introduction from the notation on the worksheet.</li> <li>Perform the entire song along with the recording while following the notation.</li> </ol>	<ol> <li>Review the melody of the song on recorder.</li> <li>Listen to the teacher sing the song with the text and learn by rote.</li> <li>Learn the accompaniment by rote using body percussion.</li> <li>Transfer the accompaniment to barred instruments.</li> <li>Perform the accompaniment while singing and playing the song on recorder.</li> <li>Perform the arrangement in canon.</li> <li>Perform the arrangement in the following form: Introduction, A, A1, A, A3, Coda.</li> </ol>
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 5	
Conceptual Objective: Rhythm patterns are groupings of durations that move in relation to the	
beat.	
Control Group	Treatment Group
Title: "Try Something New – Low D"	Title: "Wakilah"
Source: Share the Music Recorder Master 14	Source: "Wakilah," Tropical Recorder page 4
Materials: copies of Recorder Master 14,	Materials: recorders, visual, guitar
recorders, pencils	
Students:	Students:
1. Review the fingerings for E, G, A, and	1. Listen to the teacher play the melody of
B while discussing the importance of	"Wakilah."
correct recorder technique.	2. Echo sing the pitch names after the
2. Imitate the teacher's fingering for low	teacher.
D.	3. Sing the pitch names from notation
3. Echo sing pitch patterns using E and D.	while the teacher accompanies on
4. Echo play pitch patterns on recorder	guitar.
using E and D.	4. Sing and finger the pitches from
5. Improvise three rhythm patterns of	notation.
eight beats each on low D.	5. Play the entire song while the teacher
6. Choose their favorite pattern and notate	accompanies on guitar.
the pattern on the worksheet.	6. Identify syncopated rhythms within the
7. Play their notated pattern for the class.	music.
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

Week 6	
Conceptual Objective: Rhythm patterns are groupings of durations that move in relation to the	
beat.	
Control Group	Treatment Group
Title: "Try Something New – Low D"	Title: "Wakilah" (continued)
(continued)	
Source: Share the Music Recorder Master 14	Source: "Wakilah," Tropical Recorder page 4
Materials: copies of Recorder Master 14,	Materials: recorders, visual, guitar, barred
recorders, student textbooks, Share the Music	instruments, cabasa, claves, maracas, tubanos
recording cd 2:34	
Students:	Students:
1. Review their notated rhythm pattern.	1. Review the melody of the "Wakilah"
2. Sing "Shabat Shalom" on page 107	on recorder.
along with the recording while	2. Play the song while the teacher
identifying the syncopated rhythms.	accompanies on guitar.
3. Play their 8-beat rhythm pattern on low	3. Learn the barred instrument parts by
D four times along with the recording	rote.
of the first section of "Shabat Shalom."	4. Play the entire song on recorder and
4. Play the five melodic patterns on the	barred instruments.
worksheet.	5. Learn the unpitched percussion
5. Play pattern 1 and then, pattern 2.	instrument parts by rote.
6. Play pattern 3 and then, pattern 4.	6. Play the entire arrangement while the
7. Play pattern 5 and then, pattern 1.	teacher accompanies on guitar.
8. Choose two patterns and play them for	
a partner.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation
Week 7	
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Conceptual Objective: Harmony is created by sounding two or more tones simultaneously.	
Control Group	Treatment Group
Title: "Joyful, Joyful"	Title: "Down in the Jungle"
Source: Share the Music Recorder Master 15	Source: "Down in the Jungle," Recorder
	Routes pages 36-37
Materials: copies of Recorder Master 15,	Materials: recorders, visual, tubanos,
recorders	contrabass bars
Students:	Students:
1. Review correct recorder technique and	1. Speak the poem, which will become the
the fingerings for low D, low E, G, A,	A section, from the visual.
and B.	2. Speak the poem again adding the body
2. Discuss the patterns on the worksheet	percussion on the rests.
with the same pitches and rhythm.	3. Transfer the body percussion to
3. Discuss the patterns on the worksheet	percussion instruments.
with the same rhythm.	4. Clap the rhythm of the B section from
4. Discuss the pattern that is most	the visual.
different from the others.	5. Sing the pitch names from the visual.
5. Play the patterns in order.	6. Sing the pitch names and finger the
6. Play the "BAG Review" while	recorder from the visual.
following the notation on the	7. Play the B section four times in a row
worksheet.	adding players with each repeat.
7. Play the patterns in order as the	8. Play the song using voices, percussion
introduction and coda to the "BAG	instruments, and recorders in ABA
Review."	form.
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 8	
Conceptual Objective: Harmony is created by sounding two or more tones simultaneously.	
Control Group	Treatment Group
Title: "Joyful, Joyful" (continued)	Title: "Down in the Jungle" (continued)
Source: Share the Music Recorder Master 15	Source: "Down in the Jungle," Recorder
	Routes pages 36-37
Materials: copies of Recorder Master 15,	Materials: recorders, tubanos, contrabass bars,
recorders, student textbooks, Share the Music	barred instruments
recording cd 2:37	
Students:	Students:
1. Review playing the patterns in order as	1. Review the song using voices,
the introduction and coda to the "BAG	percussion instruments, and recorders
Review."	in ABA form.
2. Sing "Joyful, Joyful, We Adore Thee"	2. Learn the C section by rote on barred
on page 111 along with the recording.	instruments with xylophones playing
3. Identify which patterns are included in	the first time and metallophones
the harmony part for "Joyful, Joyful,	playing the second time.
We Adore Thee."	3. Play the song using voices, percussion
4. Play the harmony part from the	instruments, and recorders in rondo
notation on the worksheet.	form.
5. Divide in two groups with one group	4. Play the introduction and coda by
singing the song and the other group	making jungle sounds with voices.
playing the harmony part on recorder.	5. Perform the song in the following form:
	introduction, A, B, A, C, A, coda.
Method of Assessment: documented	Method of Assessment: documented
observation	observation

We	ek 9
Conceptual Objective: Musical texture is the relationship of harmonic and melodic elements of	
music.	
Control Group	Treatment Group
Title: "Introducing 'Yankee Doodle' "	Title: "Yemaya"
Source: Share the Music Recorder Master 16	Source: "Yemaya," <i>Tropical Recorder</i> page 5
Materials: copies of Recorder Master 16,	Materials: recorders, visual
recorders, pencils, student textbooks, Share the	
Music recording cd 3:3	
Students:	Students:
<ol> <li>Play the rhythm patterns on the worksheet to review the following pitches: low, D, low, E, G, A, and B.</li> <li>Complete the worksheet by writing the pitch names for the notated music.</li> <li>Review answers for accuracy.</li> <li>Sing "Yankee Doodle" on page 120 along with the recording.</li> <li>Identify the measures in which both parts play.</li> <li>Clap the rhythm of each part.</li> <li>Sing the pitch names while fingering on the recorder.</li> <li>Play the introduction.</li> <li>Divide into two groups with one group playing the introduction and the other</li> </ol>	<ol> <li>Listen to the teacher play the melody of "Yemaya."</li> <li>Echo sing the pitch names after the teacher.</li> <li>Sing the pitch names from notation while the teacher accompanies on guitar.</li> <li>Sing and finger the pitches from notation.</li> <li>Play the entire song.</li> </ol>
10. Switch roles.	
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

Week 10	
Conceptual Objective: Musical texture is the relationship of harmonic and melodic elements of	
music.	
Control Group	Treatment Group
Title: "It's a Package Deal"	Title: "Yemaya" (continued)
Source: Share the Music Recorder Master 18	Source: "Yemaya," <i>Tropical Recorder</i> page 5
Materials: copies of Recorder Master 18,	Materials: recorders, visual, tambourine,
recorders, pencils	maracas, cowbell, bongos, tubanos
Students:	Students:
<ol> <li>Echo play patterns on the recorder that contain D in combination with B, A, and G.</li> <li>Echo play patterns in the boxes on the worksheet.</li> <li>Play the two examples of combining the patterns.</li> <li>Decode the patterns into short phrases.</li> <li>Play the phrases.</li> <li>Play the combination of phrases from the worksheet.</li> <li>Complete the missing notation on the worksheet.</li> <li>Review answers for accuracy.</li> <li>Play the notated melody.</li> </ol>	<ol> <li>Review the melody of the "Yemaya" on recorder.</li> <li>Play the song.</li> <li>Learn the unpitched percussion instrument parts by rote.</li> <li>Play the entire arrangement.</li> </ol>
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

Week 11	
Conceptual Objective: Beat is grouped by accent.	
Control Group	Treatment Group
Title: "Polonaise" and "Brandenburg	Title: "Hot Cross Buns"
Concerto"	
Source: Share the Music pages 391C-D and	Source: "Hot Cross Buns," Recorder Routes
391 G-H	pages 6-8
Materials: copies of "Polonaise" listening map,	Materials: recorders, visual, guitar
copies of "Brandenburg Concerto" listening	
map, Share the Music recordings cd 9:33 and	
cd 10:1	
Students:	Students:
1. Practice conducting in triple meter.	1. Listen to the teacher sing the melody of
2. Discuss that the polonaise is a dance	"Hot Cross Buns."
organized in sets of three beats.	2. Identify the measure whose rhythm
3. Listen for a strong beat in the first part	matches that of one a penny, two a
of the A section while following the	<i>penny</i> on the visual.
"Polonaise" listening map.	3. Identify the measures whose rhythm
4. Listen and follow the melodic contour	matches that of <i>hot cross buns</i> on the
during the B section.	visual.
5. Listen for the trills and rhythm patterns	4. Speak and clap the mythm of the entire
In the d part.	pattern from the visual.
6. Listen again to the section while	5. Echo the body percussion performed by
7 Drastice conducting in duple mater by	6 Dlay the body percussion patterns from
7. Fractice conducting in duple meter by	the visual
saving one and two	7 Listen as the teacher plays the melody
8 Identify the theme on the listening man	of the class
for "Brandenburg Concerto."	8 Echo sing the nitch names
9 Listen to the recording and follow the	9 Sing and finger the nitches on recorder
solo instruments on the listening man	10 Play the melody on recorder as the
10. Identify the number of measures on	teacher accompanies on guitar from the
each harpsichord by conducting in	visual.
duple meter while counting the number	
of measures aloud.	
11. Listen again and pantomime playing	
the instrument heard.	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 12	
Conceptual Objective: Beat is grouped by accent.	
Control Group	Treatment Group
Title: "Folk Styles from the Past"	Title: "Hot Cross Buns" (continued)
Source: Share the Music pages 197, 200, 202-	Source: "Hot Cross Buns," <i>Recorder Routes</i>
205	pages 6-8
Materials: student textbooks, <i>Share the Music</i>	Materials: recorders, visual, guitar
recordings cd 5:2, 4-7	
Students:	Students:
<ol> <li>Sing "Chumbara" (page 200) while performing the ostinato with a partner.</li> <li>Define duple meter.</li> <li>Read about "La bamba" on page 202.</li> <li>Listen to "La bamba."</li> <li>Listen to the recorded lesson, "Pronunciation for 'La bamba.' "</li> <li>Sing the refrain while listening to the song.</li> <li>Pat the ostinato during the refrain while speaking the words <i>Ba-ma-la-ma Bam</i>!</li> <li>Divide into two group with one group singing the refrain and the other group patting and speaking the ostinato.</li> <li>Switch roles.</li> <li>Read about "Oh, My Darling, Clementine" on page 204.</li> <li>Listen to the song and identify the meter.</li> <li>Define triple meter.</li> <li>Sing the song.</li> <li>Perform the body percussion ostinato on page 205 with verse 1 of the song.</li> </ol>	<ol> <li>Review playing the melody for "Hot Cross Buns" while the teacher accompanies on guitar.</li> <li>Echo play variation 1 in the waltz style while the teacher accompanies on guitar.</li> <li>Echo play variation 2 in the march style while the teacher accompanies on guitar.</li> <li>Echo play variation 3 in the calypso style while the teacher accompanies on guitar.</li> <li>Play the form of the entire song as the teacher accompanies on guitar.</li> </ol>
15. Identify the meter of the songs	
discussed during the lesson	
16. Sing "Music! Music!" on page 197	
Method of Assessment: documented	Method of Assessment: documented
observation	observation

Week 13	
Conceptual Objective: A motive is the smallest musical segment: a brief and fragmentary	
rhythmic or melodic pattern.	
Control Group	Treatment Group
Title: "Shakin' and Breakin' with BCD"	Title: "One More River"
Source: Share the Music Recorder Master 23	Source: "One More River," Recorder Routes
	page 58
Materials: copies of Recorder Master 23,	Materials: recorders, visual, barred
recorders, pencils	instruments, triangles, guiros, temple blocks
Students:	Students:
1. Echo four-beat patterns on recorder.	1. Listen as the teacher sings the song.
2. Clap the rhythm pattern from notation	2. Echo play the refrain motive on
on the worksheet.	recorder from a visual.
3. Play the six patterns on recorder from	3. Listen as the teacher sings the song
the worksheet.	again and identify each time the motive
4. Complete the worksheet by writing the	is sung.
pitch name under each note on the staff.	4. Divide into two groups with one group
5. Play the completed pattern.	playing the motive on recorder in
6. Play the entire song by playing the first	refrains 1 and 3 and the other group
six patterns and the completed pattern	playing the motive on recorder in
in order.	retrains 2 and 4.
	5. Switch foles.
	6. Learn the accompaniment parts on
	7 Diax the song with horred instruments
	7. Play the song with barred instruments,
	P L corr the unnitched percussion parts by
	8. Learn the unprened percussion parts by
	9 Play the song with barred instruments
	recorders unnitched percussion
	instruments and voices
Method of Assessment: written assessment by	Method of Assessment: documented
student	observation

## APPENDIX E

## SOURCES FOR EXPERIMENTAL GROUP LESSON PLANS

Almeida, A. (2007). Mallet madness. Dayton, OH: Heritage Music Press.

Amidon, P., Brass, M.C., & Davis, A. (Eds.). (1991). Chimes of Dunkirk: Great dances for children. Brattleboro, VT: New England Dancing Masters Productions.

Frazee, J. (1987). Discovering Orff: A curriculum for music teachers. New York: Schott.

- Judah-Lauder, C. (2001). *Hand drums on the move*. Bridgewater, VA: Beatin' Path Publications.
- King, C. (1994). Recorder routes. Lakeland, TN: Memphis Musicraft Publications.
- Kriske, J. & DeLelles, R. (1993). As American as apple pie. Las Vegas: KiD sounds.
- Kriske, J. & DeLelles, R. (1999). Strike it rich. Las Vegas: KiD sounds.
- Kriske, J. & DeLelles, R. (2001). 3<sup>rd</sup> rhyme's the charm. Las Vegas: KiD sounds.
- Medley, K. (2001). *Notes for the recorder hour*. Orff Schulwerk Level I Teacher Training Course: The Eastman School of Music.
- Solomon, J. (1998). *D.R.U.M.: Discipline, respect, and unity through music*. Miami: Warner Brothers Publications.
- Solomon, J. (2001). *Notes for the basic hours*. Orff Schulwerk Level I Teacher Training Course: The Eastman School of Music.
- Solomon, J. & Solomon, M.H. (1997). *Tropical recorder*. Lakeland, TN: Memphis Musicraft Publications.

## APPENDIX F

## RUBRIC TO DETERMINE EQUALITY OF CONCEPTUAL OBJECTIVES BETWEEN TREATMENT GROUPS

Rubric to Determine Equality of Conceptual Objectives between Treatment Groups

Evaluator\_\_\_\_\_

Conceptual Objective\_\_\_\_\_

Please rate each area from 1 to 10, with 1 representing more differences and 10 representing more similarities.



Both lessons appropriate for same age and ability level.



Both lessons address same musical concept.

Total \_\_\_\_\_