Music and Math Lesson Plan

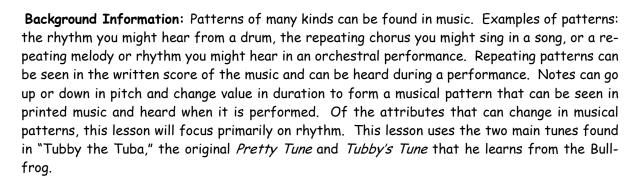
Grade Level(s): Kindergarten, First, and Second

Lesson Title: Patterns in Music

Focus: (Concept or skills to be emphasized) Rhythm, melody,

theory, listening, recognition of repeating patterns

Objectives: See end of lesson for objectives and standards achieved.



Activities (Procedures):

1. Prior to this lesson, cut around the hash marks of the "Sample Notes and Rests" and "Sample Rhythm Patterns" found at the end of this lesson. Enlarge and reproduce each one on a single sheet pf 8.5 x 11 paper. (Make 6 copies of each of the individual "Sample Notes and Rests.") Show students the half, quarter, and beamed eighth notes. Explain/review their values. Show students several examples of repeating musical patterns from the "Sample Rhythm Patterns." Have the class clap a quarter note pulse while they verbalize

each pattern using Kodály syllables (ta (); ti ti (); ta-a (); etc.)

2. Tell students they will be using notes to make patterns. Ask for six volunteers to stand at the front of the class. Provide five of the students with large musical notes in a simple repeating pattern. Ask students to help identify what note(s) would come next in the pattern.



Once the pattern is complete, have students verbalize the rhythm. For example:

- 3. Ask for a new set of volunteers and repeat several times with different patterns, perhaps longer or more difficult.
- 4. Divide the class into several groups. Ask each group to create a different pattern and then present it at the front of the class. Tell two (or more) groups with different patterns to $_{36}$

5. Tell students that there are repeating patterns in most music. Explain that patterns can be seen in written music and heard when it is played. Have students open their Student Study Guides to the "Pretty Tune and Tubby's Tune - Patterns Worksheet." Notice that both of these tunes are all Ta and Ti Ti patterns. Have students look for the repeating rhythm patterns in the written music of the Pretty Tune and Tubby's Tune. (See the end of this lesson plan for the Answer Key.) After they have found the patterns, play Track 2, Pretty Tune, and Track 1, Tubby's Tune, found on the enclosed Audio CD. Ask students to listen for the patterns they have found on the worksheet.

Modifications (Special Needs):

- 1. Visual and auditory impaired students will need special consideration during this lesson with seating and materials adaptations.
- 2. Learning disabled students may benefit by abbreviating this lesson's content and length.
- 3. Varying learning styles will be addressed with the variety of activities in this lesson tactile, visual and sensory learning styles are utilized.
- 4. Gifted student needs are provided through the creative aspect of the pattern development.

Assessment/Evaluation*:

- 1. Formative Evaluation Plan: The teacher will facilitate discussion and observe student participation. During the completion of the "*Pretty Tune* and *Tubby's Tune* Patterns Worksheet", the teacher will address the understanding of the assignment.
- 2. Summative Evaluation Plan: The teacher will assess the understanding of the pattern sequencing through observation notes. The teacher will evaluate the accuracy of the completion of the "*Pretty Tune* and *Tubby's Tune* Patterns Worksheet."

Supplemental Materials and Equipment Needed: A copy of the WVSO Audio CD; Player able to play CD; Reproduce copies of notes found at end of lesson - at least 6 of each; Copies of Student Study Guides for each student; and red and blue colored pencils or fine markers for each student

Resources:

General information on music and music notation, geared toward young children:

http://www.sfskids.org/templates/home.asp?pageid=1

General information on music and music notation, geared toward adults:

http://library.thinkquest.org/15413/theory/theory.htm

References:

Organization of American Kodály Educators. (Last updated: May 26, 2004). Moorhead, MN. Retrieved from http://www.oake.org/.

Winslow, R. W., Dallin, L. & Wiest, S. B. (2001). <u>Music Skills for Classroom Teachers</u> (9th edition). New York: McGraw Hill.

National Standards:

Music

Reading and notating music.

Listening to, analyzing and describing music.

Evaluating music and music performances.

Mathematics

Understand patterns, relations, and functions

- Sort, classify, and order objects by size, number, and other properties
- Recognize, describe, and extend patterns such as sequences of sounds and shapes or simple numeric patterns and translate from one representation to another
- •Analyze how both repeating and growing patterns are generated

WV Content Standard Objectives: 21st Century standards are distributed separately.

Kindergarten

GM.K.2.3	read notation for	quarter notes.	quarter rests.	and beamed eighth notes.

GM.K.2.6 distinguish between same and different musical phrases.

MA.K.2.2 identify, describe, and extend a repeating pattern found in common objects, sound, and

movement.

First-Grade

GM.1.2.1	read beamed eighth notes, quarter notes and rests	S.

GM.1.2.3 identify same and different sections of music.

MA.1.2.2 analyze and create a repeating pattern using common objects and numbers.

Second-Grade

GM.2.2.3	read rhythmic notation in 2/4 and 4/4 meter.

MA.2.2.1 analyze, describe, extend and create a growing pattern.

MA.2.2.4 given the rule, complete the pattern.

^{*}All Assessments are to be at the expected state assessment standard at the mastery level.

Pretty Tune and Tubby's Tune - Patterns Worksheet - Answer Key

In "Tubby the Tuba," Tubby wants to play the *Pretty Tune* like the other instruments. Later he has his very own tune.

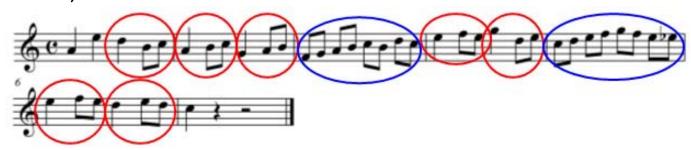
Do you see the *Pretty Tune* written below? Look very carefully to see if you can find some patterns that repeat over and over.

peated several times in *Pretty Tune*. The first one is circled for you. How many more can you find? (Note: the stems may go either direction.)

Draw blue circles around another rhythm pattern that is found two times in



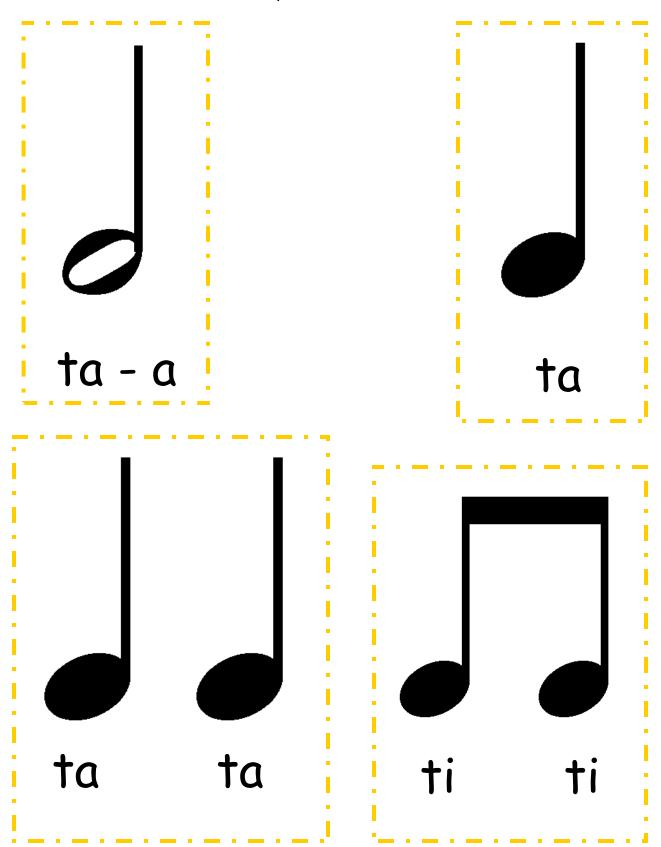
Pretty Tune

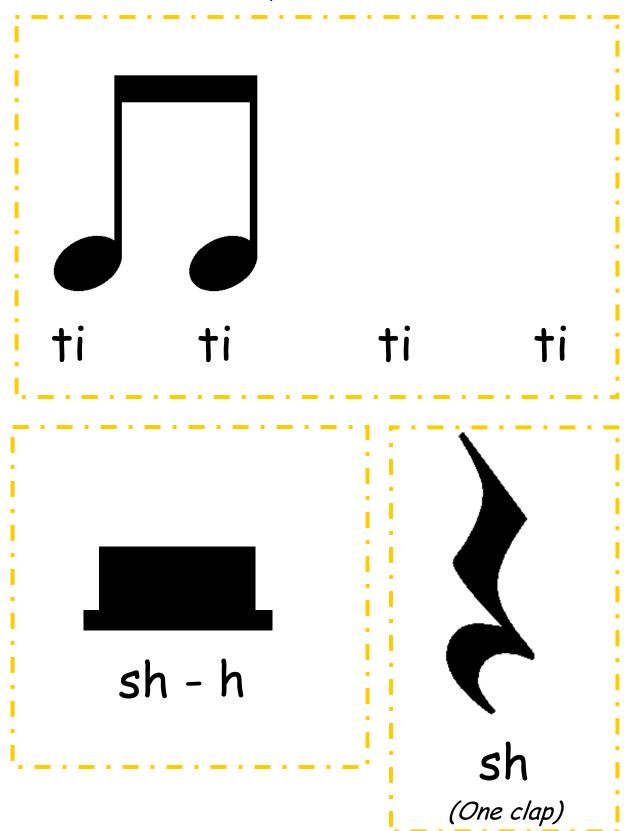


Now study *Tubby's Tune*. Draw **red** circles around the rhythm patterns that are the same as those you circled in **red** in *Pretty Tune*.

Tubby's Tune

Sample Notes and Rests





Sample Rhythm Patterns

