

Facilitation Guide



Write My Own Sound Song SABES Lesson 6: Vibrations

EXPERIENCE OVERVIEW

In this activity, students will be introduced to the very basics of writing and reading music, and will write and play their own musical “phrase”, incorporating pitch and volume.

Standards

SCIENCE

- SEP4:Analyzing and Interpreting Data. PS3: Use observations to describe patterns and/or relationships in the natural and designed world in order to answer scientific questions and solve problems.
- PS4.A: Wave Properties. PS1: Sound can make matter vibrate and vibrating matter can make sound.
- CCC3:Scale, Proportion, and Quantity. PS1: Relative scales allow object and events to be compared and described (e.g. bigger and smaller, hotter and colder, faster and slower)

MARYLAND STATE ARTS STANDARDS

- I:P-2:3: Demonstrate artistic qualities in performing musical ideas.
- I:P-2:4: Read and perform from iconic or standard notation.
- E:P-2:1: With teacher guidance, select a piece of music to read and perform, considering creative intent.

Getting Ready

SABES LEARNING OBJECTIVES:

- Unit Goal 1- Students will use observations from a listening activity to identify the source of a sound, and identify the sounds as loud or soft, and high or low pitch.

MATERIALS:

- My Sound Song handout printed for each student
- Something for students to play their musical phrase with, this could be as simple as using their hands to clap or as advanced as a simple instrument to play with. Some suggestions are:
 - No materials- students will use their hands to clap their music
 - No materials- students can sing or hum their music
 - Bucket (or other simple material) drum and drumsticks
 - Boomwhackers
 - Recorders
 - Kazoos
 - Triangles

TEACHER BACKGROUND

- Teachers should have an understanding of sound and sound types, including high and low pitch and high and low volume.
- Teachers should also have a very basic requisite knowledge of musical notes, limited only to quarter notes, half notes, rest notes, and dynamics.

STUDENT PREREQUISITES

Students should have some general knowledge of sounds, volume (high and low), and pitch (high and low).

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ARTS INTEGRATION MATERIALS



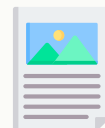
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**CONCEPT
MAP**



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SLIDES



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**VIDEO
PLAYLIST**



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HANDOUT

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Lesson 6 Write My Own Sound Song

TEACH

Engage

- Explain to students that they will be writing their own simple “Sound Song” using musical notes, and will be able to “play” their song using a simple version of an instrument.
- For increased engagement, you could play music of your choosing while displaying the written music for the song and explaining to students that musicians read this music to play the notes that make up the music we hear.



VIDEO TUTORIAL

Experience

- Use the “My Sound Song” slides to teach students the basics of musical notes, using the tried and true classroom attention grabber of echoed clapping.
- Tell your students to “clap after me” while displaying the simple 4-beat music.
- Once students are comfortable with and have practiced several examples of clapping the 4-beat lines, teach students the symbols and lengths of the eighth note, the quarter note, and the quarter rest note.
- Then, have the class proceed through the subsequent examples, clapping the 4-beat samples by reading the musical notes. At this juncture, students should also practice playing at different combinations of high volume, low volume, and high pitch, low pitch. If any alternate suggested materials are available (like boomwhackers, bucket drums, triangles, etc.), allow students to use these in place of simple clapping.
- Following the lesson and practice, students will be released to apply their learning to write their very own “Sound Song” on the provided “My Sound Song” printable. Students should be provided the opportunity to practice and play their sound songs.



SLIDES



HANDOUT

Assess

- The content learned in this lesson will also be applied at the end of the unit’s Engineering Design Challenge Extension, in which students will write another “Sound Song” and use their echolocation device to play their song.
- The Echolocation Instrument Rubric is included in these materials.