

Mini Lesson Plan

Learning Segment Focus: Sound Energy **Lesson** 2 **of** 6

Course & topic addressed: Physical Science/energy **Date** 12/13/2020
Grade 4

Students Outcomes

Specific leaning objectives for this lesson.	Students will describe how sound is created by the vibration of an object, relate that sound energy can be seen as well as heard, and describe sound in terms of volume, pitch, and frequency.
Justify how learning tasks are appropriate using and example of students prior academic learning.	This lesson will allow the students to use their listening skills that they were taught back in Kindergarten. It will also allow them to use their thinking skills.

State Academic Content Standards

List the state academic content standards with which this lesson is aligned. Include abbreviation, number & text of the standard(s).	4-PS3-2 Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.
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Key Vocabulary

What vocabulary terms/content specific terminology must be addresses for students to master the content.	Sounds, vibration, sound waves, frequency, absorption, reflection, transmission
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Materials

Materials needed by teacher for this lesson. (such as books, writing materials, computers, models, colored paper, etc.)	Paper, pen, Specdrums, smartphone, apps, computer, projector.
Materials needed by students for this lesson. (computers, journals, textbook, etc.)	Specdrums, pencil, paper,

Lesson Timeline with Instructional Strategies & Learning Tasks

Amount of Time	Teaching & Learning Activities (Bulleted Style)	Describe what the teacher will be doing and/or students. (Make it detailed)
10 minutes	<p><u>Introduction:</u></p> <ul style="list-style-type: none"> • We will start the lesson by going over what sound energy is. 	I will be discussing the meaning of sound energy or what it is.

	<ul style="list-style-type: none"> We will discuss the vocabulary words of: Sounds, vibration, sound waves, frequency, absorption, reflection, transmission (Students will write the words and the definitions down in their notes. 	I will give the students the vocabulary words for this lesson along with the definitions, so they can add them to their notes.
20 minutes	<p><u>Introduction:</u></p> <ul style="list-style-type: none"> Students will be placed into multiple groups of 5. Each group will have at least 1 Specdrum. Students will be shown the Specdrum as they each get a turn (they will have at the minimum 10 minutes to play with the Specdrums) After all students have had a turn, we will move on to a tone app where the students can hear the variety of frequencies. They will be shown each frequency they are listening to and the waves. 	<p>I will place the students into groups of 5. After, I will give each group a Specdrum and explain what they are to do.</p> <p>As the students are composing their music, I will go around helping the students and answering any questions they may have.</p> <p>After students are done with the Specdrums, I will instruct them to go to their seats, so we can perform our next activity.</p> <p>I will pull my phone out and use a tone app that shows the frequency that they are hearing and the waves that go along with the frequency.</p>
10 minutes	<p><u>Closure:</u></p> <ul style="list-style-type: none"> We will close by discussing where we would use sound energy We will also discuss how it affects our lives. 	<p>I will ask the students where they think we would use sound energy.</p> <p>I will encourage every student to share their thoughts, but I will not force them.</p> <p>I will also ask and discuss how sound energy affects our lives.</p>

Accommodations/Modifications

<p>How might I modify instruction for: <i>Remediation?</i> <i>Intervention?</i> <i>IEP/504?</i> <i>LEP/ESL?</i> (All students who have plans mandated by federal and state law.)</p>	<p>For my students that need modification, I will have a table set up with a Specdrum that they and I could work on. This will give those students the opportunity to have my full attention and to ask any questions they may have. I will also have a worksheet with pictures and definitions.</p>
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Technology Connections

Technology that will be used during the lesson plan. (Bullet Style)	Specdrums, smart phone, tone app
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