Use with pages 454-457.

Name

Lesson 2: What is sound energy?

Before You Read Lesson 2

Read each statement below. Place a check mark in the circle to indicate whether you agree or disagree with the statement.

		Agree	Disagree
1.	The vibrations in materials are responsible		
	for making different sounds.	О	О
2.	The lower the frequency of the wave, the		
	higher the pitch of the sound.	О	О
3.	Decibels are used to measure a sound's		
	intensity.	О	О
4.	When the energy of sound waves is transferred,		
	it becomes electrical energy.	О	О

After You Read Lesson 2

Reread each statement above. If the lesson supports your choice, place a check mark in the *Correct* circle. Then explain how the text supports your choice. If the lesson does not support your choice, place a check mark in the *Incorrect* circle. Then explain why your choice is wrong.

	Correct	Incorrect
1.	 О	О
2.	 О	О
3.	 О	0
4.	 О	0

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Notes for Home: Your child has completed a pre/post inventory of key concepts in the lesson.

Home Activity: Have your child draw the sound waves of a high-pitched sound and of a low-pitched sound.

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Reviewing Concepts: Sentence Completion

Complete each sentence with the correct term.

1.	is/are a measure of loudness. (Frequency, Decibels)
2.	The measure of how fast particles are vibrating is (crest, frequency)
3.	The back-and-forth motion of an object is a (pitch, vibration)
4.	The greater the frequency is, the higher the of the sound. (vibration, pitch)
5.	As increases, the sound carries more energy. (frequency, loudness)
6.	The areas where particles are close together are called (crests, decibels)
7.	Without, sound cannot exist. (decibels, vibrating particles)
8.	For sound to be heard, <u>must first</u> cause the object to vibrate. (speed, energy)

Applying Strategies: Calculating

Show all work to answer question 9. (2 points)

9. If sound travels at 331 m/s through dry air at sea level and at 1531 m/s through salt water, about how many times faster is sound traveling through salt water?