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#### **STUDENT HANDOUTS**

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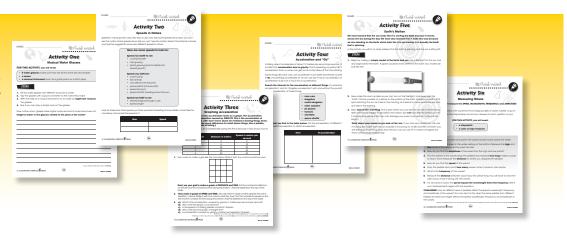
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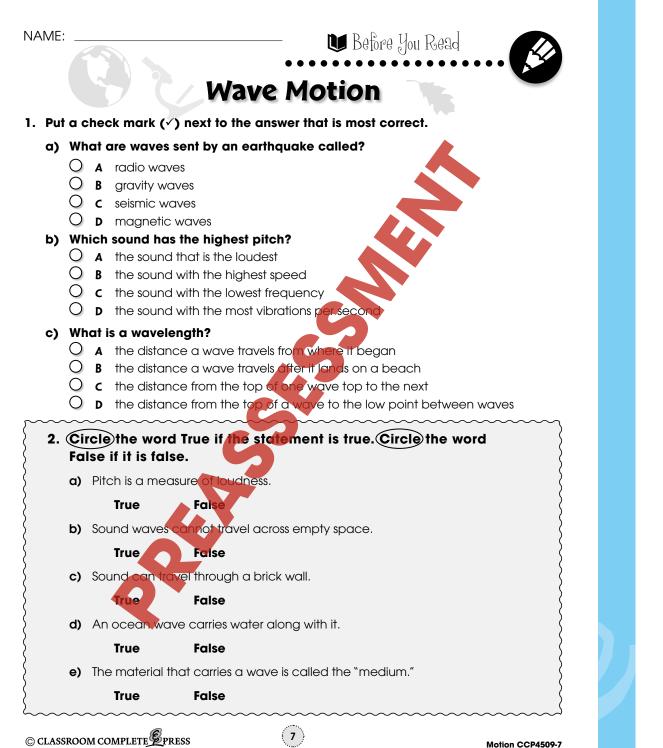
- Click on item CC4509 Motion
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Motion CCP4509-7



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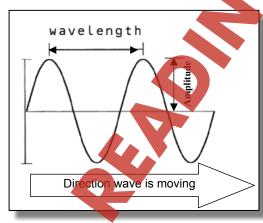
W Reading Passage NAME:

#### **Wave Motion**

e have learned that sound waves pass in some mysterious way through particles that we can't even see. Water waves are easier to make sense of. First of all, we can see them, and they look like what we think of as waves.

We learned that frequency is the number of waves per second. The frequency is much lower for water waves than for sound. It is so low we can count the waves as they pass by. Water waves about wave motion.

The picture below shows water waves. The surface of the water sideways.



Two things about the wave are shown. The **wavelength** is the distance between waves. To get wavelength we measure the distance from the top of one wave to the top of the next. The **amplitude** is the height of the wave. Amplitude is measured from the middle to the top of a wave.

For all kinds of waves, high frequency waves have short wavelengths, and low frequency waves have long wavelengths. Amplitude in sound waves measures loudness. The

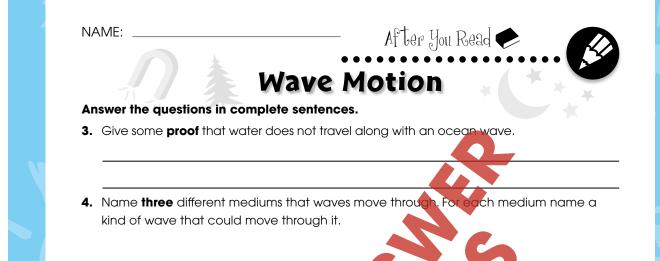
amplitude of a sound tells how tightly packed the air particles are in the thick air part of a sound wave.

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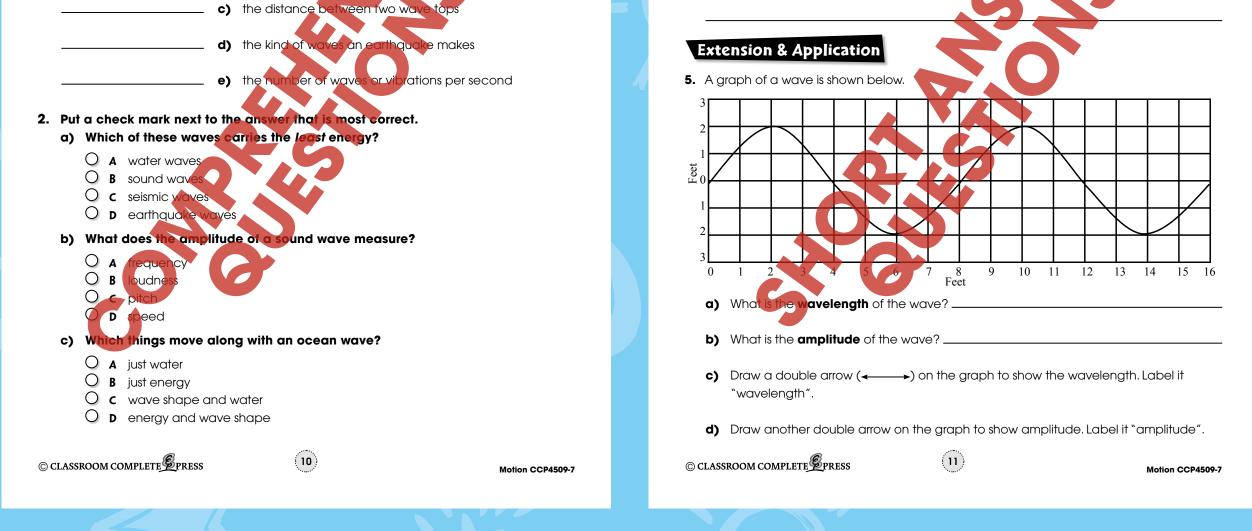
Motion CCP4509-7

After You Read 
MAME:
Development



re good for explaining some other things

is what they would look like if you could look at the



### Hands-On Activity # 4 **Vibrating Strings**

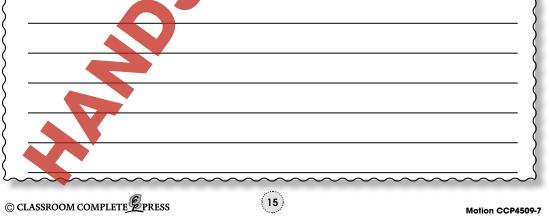
n this activity, you will study vibrating strings. You will try to find out what the length of a string has to do with the frequency of the note it makes when it vibrates.

For this activity all you really need is a rubber band. You could learn more, however, if you have any of the following: a guitar, pitch pipe, piano, or set of tuning forks.

#### This is what you do:

- 1. Stretch the rubber band as tight as you can between two points the way a guitar string is stretched across the neck of a guitar.
- 2. Pluck the rubber band and listen to the note it makes. Try to find the same note on a piano, tuning fork, or pitch pipe (if you have them).
- 3. Hold the rubber band down in the middle and pluck one side of it. How did the note change? Can you find the new note the piano?
- 4. Try holding the rubber band down at other places to make different lengths that will make different notes. You can do the same thing with guitar strings if you have a guitar

What does string LENGTH have to do with FREQUENCY? (Remember, higher pitch is higher frequency.) Remember the frequency of a note is twice the frequency of the note one octave below it. On the piano keyboard, octaves are eight white keys apart. Can you figure out how to make rubber band notes an octave apart?





- their spaceship. The spaceship is in outer space far from Earth or anything else. As you sit in the room, which of these questions could you answer? Write "could tell"

