

# What is sound?

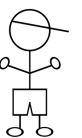
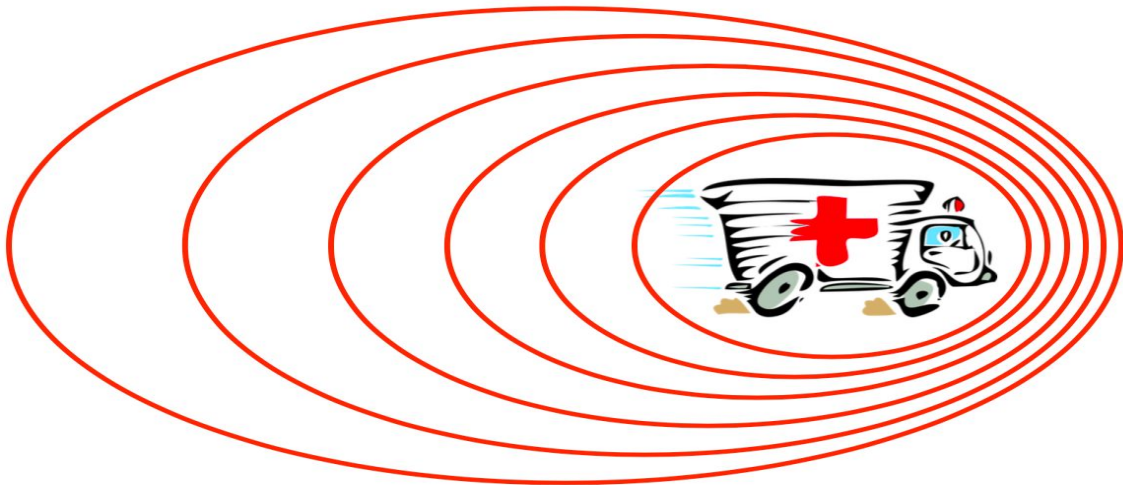
Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Terms To Know:

- sound: a type of energy made by vibrations
- vibration: a back and forth motion; in sound, air molecules move back and forth
- sound waves: a pattern created by air molecules moving back and forth

## Sound Waves in Action

Look at the following diagram. The energy created by the ambulance's siren stays the same, but it will sound louder to one person. Who will hear it louder? And why?



# Question ♦ Prediction ♦ Summary Chart

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Background:

A pan flute is a wind instrument. It creates sound through vibrating air columns. Today you will create your own pan flute using straws for your air columns. You will discover how sounds change as you change the lengths of the straws.

### Question

Write down a question to guide your research in the space provided.

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### Prediction

Reread your question. Before the experiments begin, try to answer your question. This is called a prediction. A prediction is made when you think about everything you already know and make a guess about what will happen next. Write your prediction in the space provided.

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