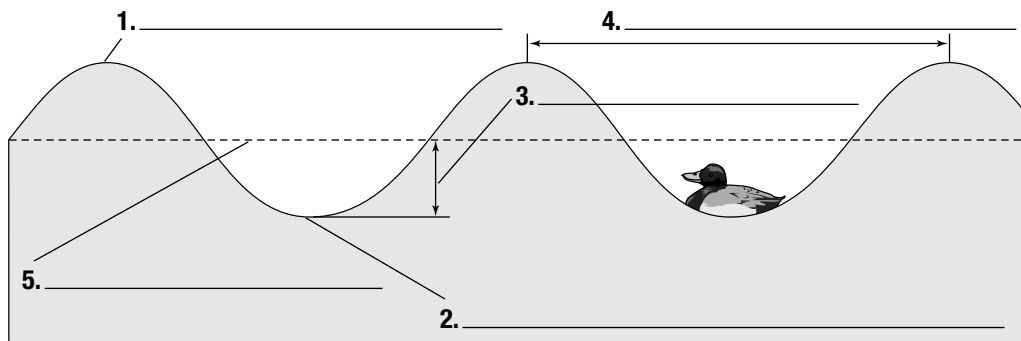


Use with textbook pages 134–136.

## Features of a wave

Use the vocabulary words in the box below to label the parts of a wave.

Vocabulary	
amplitude	wavelength
crest	rest position
trough	



On the line beside each term, describe the wave feature.

6. amplitude \_\_\_\_\_

\_\_\_\_\_

7. crest \_\_\_\_\_

\_\_\_\_\_

8. trough \_\_\_\_\_

\_\_\_\_\_

9. wavelength \_\_\_\_\_

\_\_\_\_\_

10. rest position \_\_\_\_\_

\_\_\_\_\_

Name \_\_\_\_\_

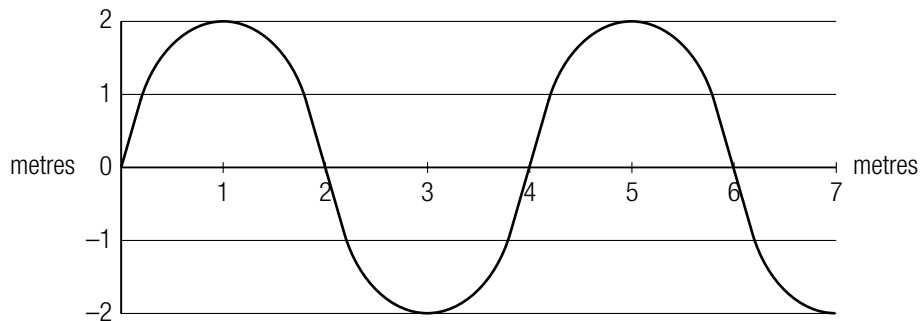
Date \_\_\_\_\_

Use with textbook pages 134–138.

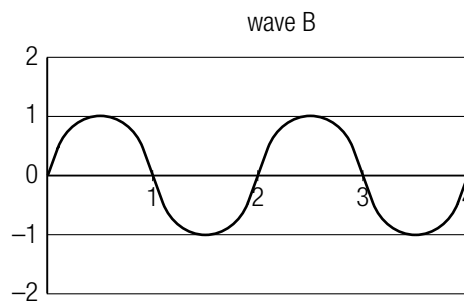
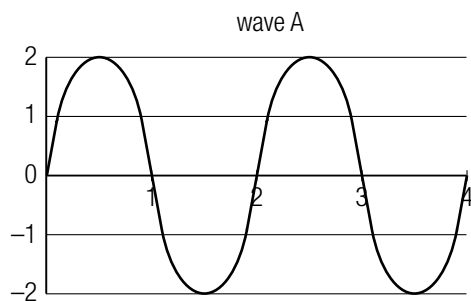
## Characteristics of waves

Use the information in the graphs to answer the questions.

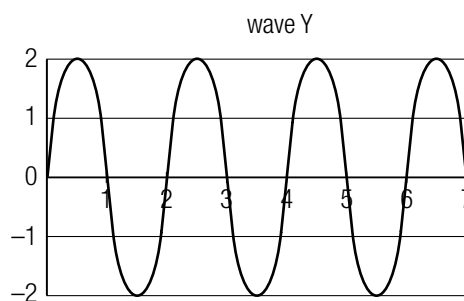
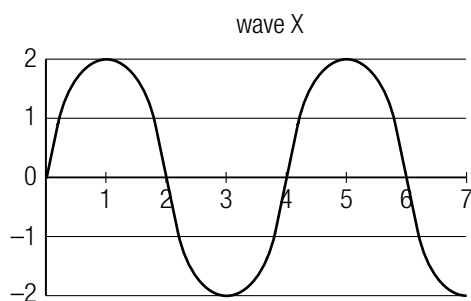
- How long is the wavelength of the wave below? \_\_\_\_\_
- How large is the amplitude of the wave below? \_\_\_\_\_



- Which wave below has the smaller amplitude, A or B? \_\_\_\_\_
- Which wave carries more energy, A or B? \_\_\_\_\_



- What is the same for waves X and Y below: amplitude, wavelength, or frequency?  
\_\_\_\_\_
- Which wave has a greater frequency, X or Y? \_\_\_\_\_
- Which wave has a longer wavelength, X or Y? \_\_\_\_\_



Use with textbook pages 134–138.

## True or false?

Read the statements given below. If the statement is true, write “T” on the line in front of the sentence. If it is false, write “F,” and then rewrite the statement so it is true.

1. \_\_\_\_\_ Waves transfer matter forward.

\_\_\_\_\_

2. \_\_\_\_\_ Energy is the capacity to apply a push or pull to an object.

\_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_ A trough is the highest point in a wave.

\_\_\_\_\_

4. \_\_\_\_\_ The wavelength is the distance from crest to trough.

\_\_\_\_\_

5. \_\_\_\_\_ The amplitude of a wave is the height of a wave crest or the depth of a wave trough from the rest position.

\_\_\_\_\_

\_\_\_\_\_

6. \_\_\_\_\_ The larger the amplitude, the less energy is transported by the wave.

\_\_\_\_\_

\_\_\_\_\_

7. \_\_\_\_\_ Amplitude is the number of motions that occur in a given time.

\_\_\_\_\_

\_\_\_\_\_

8. \_\_\_\_\_ Frequency is measured in units called hertz.

\_\_\_\_\_

9. \_\_\_\_\_ The wavelength of a wave increases as frequency increases.

\_\_\_\_\_

\_\_\_\_\_