

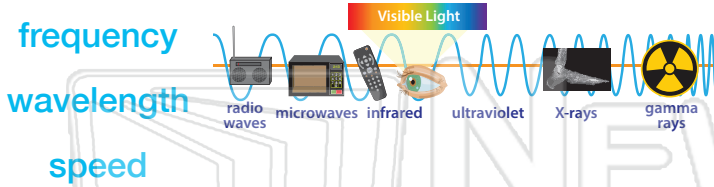


Vibrations & Waves

H.S.
Phys

Name _____ Class _____ Date _____

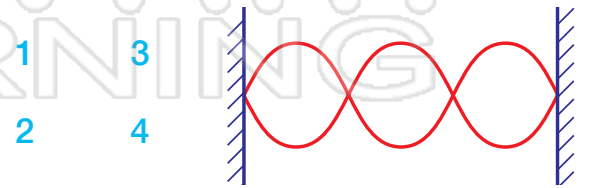
- 1 Radio waves and gamma rays traveling in space have the same _____.
Circle the answer.



- 6 Fill in the blank.

The _____ is a unit that describes the **number of cycles** of a wave completed in **one second**.

- 7 How many **nodes** are represented in the **standing wave** diagram below?



- 2 The diagram below represents a **wave** traveling in a uniform medium.
Circle **2 points** on the wave that are **in phase**.

C

3 A
p
d
o
l
h



PREVIEW

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4 A
a
n

of the wave? Write the answer.

_____ Hz



- 5 As a pulse travels along a rope, the pulse **loses energy** and its **amplitude** _____.
Circle the answer letter.

- a. decreases
b. increases
c. remains the same



c. reflecting from a barrier

- 10 A **source of waves** and an **observer** are moving relative to each other. The observer will detect a steadily **increasing frequency** if _____.

- a. the source moves away from him at a constant speed
b. he accelerates toward the source
c. the source accelerates away from him

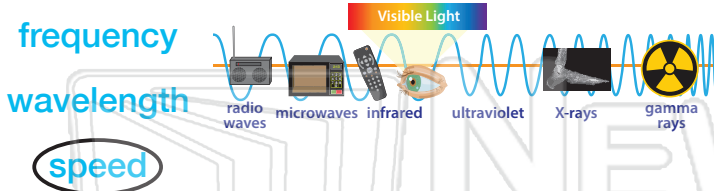




Vibrations & Waves - Answer Key

Name _____ Class _____ Date _____

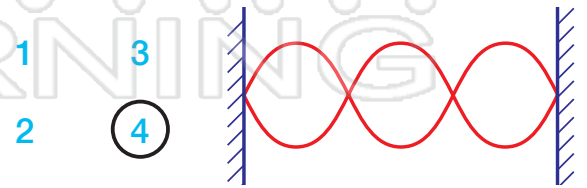
1 Radio waves and gamma rays traveling in space have the same _____.
Circle the answer.



6 Fill in the blank.
The _____ hertz is a unit that describes the number of cycles of a wave completed in one second.

7 How many nodes are represented in the standing wave diagram below?

2 The diagram below represents a wave traveling in a uniform medium.
Circle 2 points on the wave that are in phase.



C

3 A pulse of a wave is moving through a uniform medium. The pulse is 1.2 meters long. What is the wavelength of the wave?



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4 A wave has a frequency of 10 Hz. What is the period of the wave? Write the answer.

_____ 10 _____ Hz



(c.) reflecting from a barrier

5 As a pulse travels along a rope, the pulse loses energy and its amplitude _____.
Circle the answer letter.

- a. decreases
- b. increases
- c. remains the same



10 A source of waves and an observer are moving relative to each other. The observer will detect a steadily increasing frequency if _____.

- a. the source moves away from him at a constant speed
- b. he accelerates toward the source
- c. the source accelerates away from him

