

Doppler Shift **Answer Key**

Introduction Doppler shift is a change in the frequency of waves as the source and observer move relative to each other.

Pre-Knowledge Questions (Click on the **PREP** using the Gizmo.)
 1. What is the difference between a wave and a pulse?
 A pulse is a single disturbance that travels through a medium. A wave is a continuous disturbance that travels through a medium.

2. How does a wave transfer energy?
 A wave transfers energy by moving through a medium. The particles of the medium move up and down, but the wave itself moves forward.

3. How does a wave transfer matter?
 A wave does not transfer matter. It only transfers energy.

Answer Key
 1. A pulse is a single disturbance that travels through a medium. A wave is a continuous disturbance that travels through a medium.
 2. A wave transfers energy by moving through a medium. The particles of the medium move up and down, but the wave itself moves forward.
 3. A wave does not transfer matter. It only transfers energy.



4. Click the **PLAY** button. (Click on the **PREP** button and your answer.)
 What do you notice?
 The pulse moves to the right.

5. Click **Play** () and observe the wave pulse as it moves. Click **Pause** () and observe the wave pulse as it moves. What do you notice?
 The pulse moves to the right.

6. Use the **Slider** to change the frequency of the wave. What do you notice?
 The wavelength of the wave changes. As the frequency increases, the wavelength decreases.

7. Use the **Slider** to change the speed of the wave. What do you notice?
 The wavelength of the wave changes. As the speed increases, the wavelength increases.

8. Use the **Slider** to change the amplitude of the wave. What do you notice?
 The height of the wave pulse changes. As the amplitude increases, the height of the pulse increases.

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