

Student Exploration: Doppler Shift Doppler shift

Frequency shifts occur when an object moves relative to an observer.

Learning Targets: Students will understand the scientific evidence that supports the use of Doppler shift in astronomy and other fields.

Prerequisite Knowledge: Students should understand the concept of frequency.

Connections to prior learning: Students should understand the concept of frequency and the relationship between frequency and wavelength. **Skills:** They should be able to calculate the Doppler shift for a given frequency and wavelength.

Time: 45 minutes (plus 15 minutes for discussion)

Materials: A computer with internet access, a calculator, and a ruler. **Procedure:** The student will be asked to calculate the Doppler shift for a given frequency and wavelength.

Observation: The student will observe the change in frequency as the object moves towards or away from the observer. **Conclusion:** The student will conclude that the frequency of the light from a moving source is shifted.

Student Exploration


The Doppler shift is a change in frequency that occurs when an object moves towards or away from an observer. The Doppler shift is named after the physicist Christian Doppler, who first described it in 1842.

1. Calculate the Doppler shift for a given frequency and wavelength. **Equation:**
$$\Delta f = \frac{v}{\lambda} \left(\frac{v_{\text{source}}}{v_{\text{medium}}} \right)$$
 Where: Δf is the Doppler shift, v is the speed of the wave, λ is the wavelength, v_{source} is the speed of the source, and v_{medium} is the speed of the medium. **Example:** If the frequency of a wave is 100 Hz and the wavelength is 1 m, and the source is moving towards the observer at 10 m/s, the Doppler shift is 10 Hz.

2. Use the Doppler shift to calculate the speed of a moving source. **Equation:**
$$v_{\text{source}} = \frac{\Delta f \lambda v_{\text{medium}}}{v}$$
 Where: v_{source} is the speed of the source, Δf is the Doppler shift, λ is the wavelength, v is the speed of the wave, and v_{medium} is the speed of the medium.

Teacher Exploration Doppler Shift Answer Sheet

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