

Name: _____ Date: _____

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Student Exploration: Doppler Shift

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

Prerequisite Knowledge: Students should understand the difference between speed and velocity.

Connections to prior learning: Students should understand the difference between speed and velocity. They should also understand that objects moving at the same speed can have different velocities.

Time: 45 minutes

Materials: Students will need a ruler and a timing device. They will also need a set of data for the Doppler shift experiment.

Procedure: The teacher will divide the class into groups of four. Each group will be given a set of data for the Doppler shift experiment.

Student Handout:

The Doppler shift is a change in the frequency of a wave that is caused by the relative motion between the source of the wave and the observer.

1. Calculate the Doppler shift for the following waves. (The Doppler shift is the difference between the observed frequency and the source frequency.)
a. A wave with a source frequency of 100 Hz and an observed frequency of 110 Hz.
b. A wave with a source frequency of 100 Hz and an observed frequency of 90 Hz.
c. A wave with a source frequency of 100 Hz and an observed frequency of 120 Hz.
d. A wave with a source frequency of 100 Hz and an observed frequency of 80 Hz.

2. Use the Doppler shift to determine the relative motion between the source and the observer.

Teacher Exploration Doppler Shift Answer Sheet

**Institute of Electrical and Electronics
Engineers**



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A Voyage of Exploration ,1986 *Resources in Education* ,1998-12 **Bibliographia Geodaetica/ A. Volume 22, Number 6** ,2022-03-21 No detailed description available for BIBLIOGRAPHIA GEODAETICA A V 22 6 BGA E BOOK

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