

Doppler Effect

Key Concepts

In this lesson, you will be taught how to

- Define Doppler effect
- Predict changes in the observed frequencies as the source and the observer move in relation to each other
- Use the Doppler effect equation to solve problems
- Tell whether the sound is subsonic or supersonic
- Find the Mach number for a moving source of sound, especially jets

Terminology & definitions

- Doppler Effect - the perceived change in the frequency of sound as the source and/or the listener move in relation to each other.
- Mach number - the ratio of the velocity of source to the velocity of sound.

X-planation of key concepts and terminologies

The observed frequency is greater when the source and the listener move towards each other, and is lower when the source and/or the listener move away from each other. The following Doppler equation is used to calculate for the perceived/observed frequency:

$$f_o = \left(\frac{v \pm v_o}{v \pm v_s} \right) f_s$$

When the speed of the source is smaller than the speed of sound, the sound is said to be subsonic. When the speed of the source is greater than the speed of sound, the sound produced, is said to be supersonic. In a situation where the speed of the source equals the speed of sound, a sound barrier is created. In this case, the Mach number equals 1 since it is given by the ratio of the velocity of the source and that of sound in air. A sonic boom will be produced by a moving object if its velocity exceeds the velocity of sound in air, e.g., a jet. In this case, the Mach number is greater than 1.

Memorandum For Physical Science Exemplar Grade 1

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