

Name \_\_\_\_\_

## The Whirling Sounds of Doppler: How Moving Sources Affect What We Hear

### Multiple Choice Questions

1. What is the Doppler effect in sound?
  - a) A change in the volume of a sound as it moves closer to an observer
  - b) A change in the frequency of a sound due to relative motion between the source and the observer
  - c) A change in the color of sound waves
  - d) A change in the speed of sound waves
  
2. How does the Doppler effect affect the pitch of a sound when a car approaches an observer?
  - a) The pitch becomes lower.
  - b) The pitch remains the same.
  - c) The pitch becomes higher.
  - d) The pitch becomes inaudible.
  
3. What happens to the sound waves when a sound source is moving away from an observer?
  - a) They bunch up, increasing frequency.
  - b) They spread out, decreasing frequency.
  - c) They become louder.
  - d) They become quieter.
  
4. In which field is the Doppler effect used to study the motion of celestial objects?
  - a) Meteorology
  - b) Medicine
  - c) Astronomy
  - d) Music

