

Name \_\_\_\_\_

## The Ripple Effect: Understanding Mechanical Waves

### Multiple Choice Questions

1. What are mechanical waves?
  - A) Waves of light and electricity
  - B) Waves that require a medium to travel through
  - C) Waves that move at the speed of sound
  - D) Waves that cannot be seen
  
2. Which type of mechanical wave involves particles moving perpendicular to the wave's direction?
  - A) Transverse wave
  - B) Longitudinal wave
  - C) Sound wave
  - D) Radio wave
  
3. When you push the first domino in a line, causing a chain reaction, it illustrates the concept of:
  - A) Transverse waves
  - B) Longitudinal waves
  - C) Wave frequency
  - D) Mechanical wave speed
  
4. In a transverse wave, the particles of the medium move:
  - A) Parallel to the direction of the wave
  - B) Perpendicular to the direction of the wave
  - C) In a circular motion
  - D) In random directions
  
5. Which of the following is NOT a property of mechanical waves?
  - A) Amplitude
  - B) Wavelength
  - C) Frequency
  - D) Color

