

Name \_\_\_\_\_

## Mechanics of a Wedge

### Multiple Choice Questions

1. What is the primary mechanical principle behind a wedge?
  - a. Concentrating force over a larger area
  - b. Concentrating force at the narrow end
  - c. Increasing the distance of force application
  - d. Reducing the force applied
  
2. How does a wedge transform force when used in cutting or splitting tasks?
  - a. It spreads the force evenly.
  - b. It concentrates the force at the wide end.
  - c. It concentrates the force at the narrow end.
  - d. It doesn't affect force concentration.
  
3. Which everyday object uses a wedge-shaped blade for slicing through food?
  - a. Screwdriver
  - b. Rolling pin
  - c. Kitchen knife
  - d. Hammer
  
4. What role does the wedge play in the function of a zipper?
  - a. It holds the zipper in place.
  - b. It connects two pieces of fabric.
  - c. It interlocks the zipper teeth to keep clothing fastened.
  - d. It acts as a decorative element.
  
5. In construction, where might you find wedges being used?
  - a. As building blocks
  - b. In plumbing systems
  - c. To secure objects temporarily or hold them in place
  - d. As protective gear for workers

