Name _____

Mechanics of a Screw

Multiple Choice Questions

1. What are the essential components of a screw?
a. A long handle and a pointed tip
b. A flat, circular head and a straight shaft
c. A long, spiral ridge (thread) and a cylindrical shaft
d. A small, circular thread and a flexible shaft

2. How does a screw convert rotational motion into linear motion?
a. By turning counterclockwise
b. By turning clockwise
c. By pulling and pushing
d. By vibrating rapidly

3. What determines the mechanical advantage of a screw?
a. The screw's material
b. The size of the screw head
c. The pitch of the screw's thread
d. The length of the screw

4. In which application would a screw with a smaller pitch be preferred?
a. Securing a bookshelf to a wall
b. Holding wooden planks together in construction
c. Fastening drywall to a ceiling
d. Assembling an electronic device

5. How do screws in jar lids and bottle caps benefit consumers?
a. They make it easier to grip the lids.
b. They create decorative designs on the caps.
c. They provide a secure seal for freshness.
d. They help prevent spills during transport.