

Name _____

Pulleys and Levers: The Superheroes of Simple Machines!

Multiple Choice Questions

1. What is the main purpose of a fixed pulley?
 - a) To increase the force needed
 - b) To change the direction of force
 - c) To reduce the friction of the rope
 - d) To lift objects without a rope

2. How does a movable pulley make lifting objects easier?
 - a) By increasing the force needed
 - b) By changing the direction of force
 - c) By reducing the friction of the pulley
 - d) By moving with the load

3. What is a block and tackle system?
 - a) A type of lever
 - b) A system of movable pulleys
 - c) A type of fixed pulley
 - d) A tool for digging trenches

4. In a first-class lever, where is the fulcrum located?
 - a) At the end of the effort arm
 - b) At the end of the load arm
 - c) In the middle of the effort arm
 - d) Between the effort arm and load arm

5. How do levers provide mechanical advantage?
 - a) By changing the direction of force
 - b) By increasing the force needed
 - c) By reducing the effort arm
 - d) By either reducing the force needed or changing the direction of force

