

Pulleys: Lifting Made Easier

BibleMouse.com

Understanding Simple Machines

Name: _____

Date: _____

Answer the following questions about pulleys and how they help us lift objects more easily.

1. What is a pulley?

- A. A type of car
- B. A wheel with a groove for a rope
- C. A type of building

2. Pulleys help us lift heavy objects with ____ effort.

3. How do pulleys change the direction of force?

4. What is one benefit of using a pulley system?

- A. It makes things heavier
- B. It helps lift objects more easily
- C. It makes noise

5. Match the type of pulley to its description.

Fixed Pulley

Changes the direction of force

Movable Pulley

Reduces the amount of effort needed to lift

6. Pulleys can be used to lift heavy objects with more effort than lifting them directly.

- True False

7. According to Ecclesiastes 4:9, '____ are better than one.'

8. Why might someone need a pulley to lift something heavy?

9. Which of the following is a characteristic of a movable pulley?

- A. It stays in one place
- B. It moves with the load
- C. It only works for light objects

10. What did you learn about how pulleys work?

Answer Key

1. A wheel with a groove for a rope 2. less 3. Pulleys can pull down on a rope to lift something up. 4. It helps lift objects more easily 5. Changes the direction of force 6. False 7. Two 8. A pulley helps lift heavy objects without using as much strength. 9. It moves with the load 10. Pulleys help us lift items by changing the direction of the force needed.