

Pulley Systems Review

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Understanding Force Interactions and Systems

Name: _____

Date: _____

Answer the following questions based on your lesson about pulley systems.

1. What is one benefit of using pulley systems?

- A. They make things heavier
- B. They reduce the force needed to lift objects
- C. They require more effort

2. Pulleys can change the direction of the force applied.

- True False

3. Explain how pulleys can help people with physical limitations. Give an example.

4. According to Ecclesiastes 4:9-10, 'Two are better than ____, because they have a good reward for their labor.'

5. How can the mechanical advantage of a pulley system be calculated?

- A. By counting the number of pulleys
- B. By measuring the weight of the load
- C. By evaluating the distance the rope is pulled

6. Pulleys are an example of God's intelligent design in mechanics.

- True False

7. What surprised you the most about how pulley systems work? Explain your answer.

8. Pulleys work together to accomplish greater tasks, just like people who ____ together.

9. Where might you see pulleys used in your daily life?

- A. In a car engine
- B. In a playground
- C. In a kitchen

10. Describe a real-world application of a pulley system. How does it make work easier?

Answer Key

1. They reduce the force needed to lift objects 2. True 3. Pulleys can help people lift heavy objects with less effort. For example, a person in a wheelchair might use a pulley to open a window without needing to stand up. 4. one 5. By counting the number of pulleys 6. True 7. I was surprised that pulleys can make lifting so much easier. I didn't realize that by using more pulleys, you could lift heavier things without using more strength. 8. collaborate 9. In a playground 10. An elevator uses a pulley system to lift people between floors. It makes it easier to move heavy loads up and down without needing stairs.