

# Inclined Plane Advantage Review

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Understanding Force Interactions and Systems

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Answer the following questions based on the lesson about inclined planes and force reduction.

1. What is one advantage of using an inclined plane?

- A. It requires more force to move objects
- B. It allows us to move objects with less force
- C. It makes objects heavier

2. Explain how the angle of an inclined plane affects the force required to move an object.

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3. According to Proverbs 3:19, God founded the earth by \_\_\_ and established the heavens by understanding.

4. Inclined planes only exist in nature, not in human-made objects.

- True       False

5. Where do you see inclined planes in everyday life? Give at least two examples.

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6. What happens to the force needed as the incline angle increases?

- A. It decreases
- B. It stays the same
- C. It increases

7. Understanding physics can help us appreciate God's intelligent design in creation.

- True       False

8. How does an inclined plane help someone move a heavy object? Describe the process.

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9. The principle of inclined planes appears throughout God's \_\_\_ in the natural world.

10. What is the main purpose of an inclined plane?

- A. To create friction
- B. To reduce the force needed to move objects
- C. To make objects rotate

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Answer Key

1. It allows us to move objects with less force 2. The steeper the angle, the more force is needed to move the object. 3. wisdom 4. False 5. Inclined planes can be seen in ramps for wheelchairs and slides in playgrounds. 6. It increases 7. True 8. An inclined plane allows a person to push or pull an object up a slope rather than lifting it straight up. 9. creation 10. To reduce the force needed to move objects