

Gravity and Air Resistance Review

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Understanding the Forces at Play

Name: _____

Date: _____

Answer the following questions based on what you've learned about gravity and air resistance.

1. What is air resistance?

- A. A force that helps objects fall faster
- B. A force that pushes against falling objects
- C. A force that pulls objects down

2. Why might a feather fall slower than a rock?

3. Larger surface areas create less air resistance.

- True False

4. Job 28:25 states that God establishes the force of the ____ and measures out the waters.

5. How does shape impact falling speed?

- A. Shape does not matter
- B. Different shapes create different amounts of air resistance
- C. All shapes fall at the same speed

6. How might air resistance protect things in nature?

7. Gravity is the only force that affects falling objects.

- True False

8. When conducting the Falling Object Experiment, we dropped different ____ to measure fall times.

9. What surprised you about how objects fell during the experiment?

- A. They all fell at the same speed
- B. Different shapes fell at different speeds
- C. All objects floated away

10. Explain how air resistance affects falling objects.

Answer Key

1. A force that pushes against falling objects 2. A feather falls slower because it has a larger surface area which creates more air resistance. 3. False 4. wind 5. Different shapes create different amounts of air resistance 6. Air resistance can slow down falling objects, helping to prevent damage to delicate items like seeds or small animals. 7. False 8. shaped objects 9. Different shapes fell at different speeds 10. Air resistance pushes against falling objects and can slow them down, depending on their shape and surface area.