Gravity: The Universal Force

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Understanding Falling Objects

Name: _____ Date: _____

Answer the following questions based on what you learned about gravity and falling objects.

1. What pulls all objects toward Earth's center?

- **A.** Friction
- **B.** Magnetism
- **C.** Gravity

2. In ideal conditions, mass does not affect the ___ of falling objects.

3. What surprised you about the falling objects during the experiment? Explain your answer.

4. Air resistance has no effect on the results of falling objects.

◯ True ◯ False

5. How does this experiment demonstrate God's consistent natural laws? Provide specific examples.

6. What principle did Galileo discover about falling objects?

- **A.** Heavier objects fall faster
- **B.** All objects fall at the same rate
- **C.** Objects float in the air

7. According to Colossians 1:17, all things are held together by ___.

8. Mass affects the speed of falling objects in ideal conditions.

◯ True ◯ False

9. What do you predict will happen when we drop different objects? Explain your reasoning.

10. What is one factor that can change the results of falling objects?

- **A.** Temperature
- **B.** Air resistance
- **C.** Color

Answer Key

1. Gravity 2. speed 3. I was surprised that heavier objects did not fall faster than lighter ones, as I thought they would. 4. False 5. The experiment shows that gravity works the same way for all objects, showing God's design in nature. Just like gravity, God's laws are always true and reliable. 6. All objects fall at the same rate 7. Him 8. False 9. I predict that all objects will hit the ground at the same time because gravity pulls them equally, regardless of their mass. 10. Air resistance