

Inertia Investigations Review

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Understanding Newton's First Law of Motion

Name: _____

Date: _____

Answer the following questions based on what you learned about inertia and Newton's laws of motion.

1. What is inertia?

- A. The force that moves objects
- B. The resistance of objects to changes in motion
- C. The speed of an object

2. Why do you think seatbelts are important when considering inertia?

3. Objects at rest want to stay at rest according to Newton's First Law.

- True False

4. Inertia is the resistance of any physical object to changes in its ____ of motion.

5. Which of the following is an example of inertia in action?

- A. A ball rolling down a hill
- B. A book sitting on a table
- C. A car speeding up

6. How do the experiments you did show God's precise design in motion?

7. Objects in motion will change direction without any force acting on them.

- True False

8. According to Proverbs 3:19, Yahweh founded the earth by ____ and established the heavens by understanding.

9. What happens to objects when a sudden stop occurs?

- A. They stop immediately
- B. They continue moving forward due to inertia
- C. They move backwards

10. What surprised you most about the experiments and why?

Answer Key

1. The resistance of objects to changes in motion 2. Seatbelts keep us safe by preventing us from continuing to move forward in a crash, demonstrating how inertia works. 3. True 4. state 5. A book sitting on a table 6. The experiments demonstrate how God created laws that govern motion, showing His wisdom in designing the universe. 7. False 8. wisdom 9. They continue moving forward due to inertia 10. I was surprised at how easily the objects resisted changes in motion, showing how strong inertia really is.