

Newton's First Law: Inertia

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Understanding Inertia in Motion

Name: _____

Date: _____

Answer the following questions based on what you learned about Newton's First Law of Motion.

1. What is inertia and how does it relate to motion?

2. What does inertia explain about motion?

- A. Objects move without any force
- B. Objects want to stay still or keep moving
- C. Objects always need a push

3. A book will stay put until a force, like a push, moves it.

True False

4. According to Newton's First Law, an object in motion will remain in motion unless acted upon by a ____.

5. What happens to a rolling ball when no force acts on it?

- A. It stops immediately
- B. It keeps rolling
- C. It rolls faster

6. Can you give an example of inertia from your daily life?

7. Inertia can protect us in situations like wearing seat belts in a car.

True False

8. God's design in physical laws, like inertia, shows His ____ and understanding.

9. How does friction affect an object's motion?

- A. It speeds it up
- B. It has no effect
- C. It can slow it down or stop it

10. How does understanding inertia help us in real life?

Answer Key

1. Inertia is an object's resistance to changes in motion. It means that objects will stay still or keep moving unless acted upon by a force. 2. Objects want to stay still or keep moving 3. True 4. force 5. It keeps rolling 6. When I ride my bike and suddenly stop pedaling, the bike keeps rolling forward for a while because of inertia. 7. True 8. wisdom 9. It can slow it down or stop it 10. It helps us understand how to be safe and how to predict the movement of objects around us.