

Understanding Friction

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Reviewing the Factors Affecting Friction

Name: _____

Date: _____

Answer the following questions based on what you learned about friction and its variables.

1. What is one factor that affects the amount of friction?

- A. Weight
- B. Color
- C. Shape

2. How does adding more weight change friction? Provide an example from your experiment.

3. Friction is affected by the interaction between different surface ____.

4. Friction only depends on the weight of the object.

- True False

5. What does the scientific method help us do?

- A. Make guesses
- B. Conduct experiments
- C. Avoid learning

6. How might friction change on different surfaces? Give two examples.

7. According to Proverbs 3:19, God used ____ to establish the heavens.

8. The experiment we did shows how God's design is evident in the laws of friction.

- True False

9. What is a variable in an experiment?

- A. Something that changes
- B. Something that stays the same
- C. Something that is not important

10. In your own words, explain why understanding friction is important in science and how it relates to God's creation.

Answer Key

1. Weight 2. Adding more weight increases the friction because it pushes the objects harder against the surface. For example, when I added a heavy book, it was harder to slide than a lighter one. 3. textures 4. False 5. Conduct experiments 6. Friction is usually higher on rough surfaces like sandpaper compared to smooth surfaces like ice. This means it's harder to slide an object on sandpaper. 7. understanding 8. True 9. Something that changes 10. Understanding friction helps us know how things move in our world. It shows how God designed everything to work together with specific laws, reflecting His wisdom and intelligence.