

Measuring Force with Spring Scales

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Understanding Forces: Pushes and Pulls

Name: _____

Date: _____

Answer the following questions based on the lesson about spring scales and measuring force.

1. What is the standard unit of force measurement?

- A. Pounds
- B. Newtons
- C. Kilograms

2. Explain how a spring scale measures force. What happens to the spring inside when force is applied?

3. A spring scale can only measure force in one direction.

- True False

4. One Newton is the force needed to move a small ___ on Earth.

5. What surprised you about the forces you measured during the activity?

6. Which object required the most force to move during the activity?

- A. A pencil
- B. A book
- C. A chair

7. In Colossians 1:17, it says that in Him all things ___ together.

8. Forces are not important in our everyday lives.

- True False

9. How do you think God designed forces to work in the world? Give your opinion based on the lesson.

10. What might happen if forces didn't exist?

- A. Objects would float away
- B. Everything would be in motion
- C. Nothing would move

Answer Key

1. Newtons 2. A spring scale measures force by stretching an internal spring. When force is applied, the spring stretches, and the amount of stretch indicates the force in Newtons. 3. False 4. apple 5. I was surprised that some objects required much more force than I expected. It showed me how different weights affect the force needed to move them. 6. A book 7. hold 8. False 9. I think God designed forces to create balance and movement in the world. Without forces, everything would stay still, and we wouldn't be able to experience motion. 10. Nothing would move