

Understanding Forces: Balanced vs. Unbalanced

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5th Grade Science Review

Name: _____

Date: _____

Answer the following questions based on what you learned about balanced and unbalanced forces.

1. What happens when forces are balanced?

- A. The object moves
- B. The object stays still
- C. The object spins

2. Unbalanced forces cause an object to ____.

3. Explain how balanced forces affect an object's motion. Give an example if you can.

4. Balanced forces can cause an object to move.

- True False

5. Which of the following is an example of unbalanced forces?

- A. Two dogs pulling on a leash equally
- B. A car accelerating forward
- C. A book resting on a table

6. How do unbalanced forces create movement? Use a real-life example to support your answer.

7. According to Colossians 1:17, in Him all things are held ____.

8. Balanced forces are important for maintaining order in the universe according to God's design.

- True False

9. What do we call forces that act in opposite directions and are equal in strength?

- A. Net forces
- B. Balanced forces
- C. Unbalanced forces

10. Discuss how understanding forces reflects God's design in nature.

Answer Key

1. The object stays still 2. move 3. Balanced forces keep an object at rest or moving at a constant speed. For example, if two people push a box from opposite sides with equal strength, the box won't move. 4. False 5. A car accelerating forward 6. Unbalanced forces create movement by having one force stronger than the other, causing the object to move in the direction of the stronger force. For instance, if I push a toy car harder than the friction from the ground, it will roll forward. 7. together 8. True 9. Balanced forces 10. Understanding forces shows us how God created a balanced universe where everything interacts perfectly. It reflects His wisdom and order in nature, demonstrating that even physical laws are part of His creation.