

# Understanding Balanced and Unbalanced Forces

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## Review of Forces in God's Creation

Name: \_\_\_\_\_

Date: \_\_\_\_\_

*Let's see what you remember about balanced and unbalanced forces!*

1. What are balanced forces?
  - A. Forces that cause motion
  - B. Equal forces acting in opposite directions
  - C. Forces that always push
2. Unbalanced forces can cause an object to \_\_\_\_ or change direction.
3. Why do balanced forces keep objects still?  
\_\_\_\_\_  
\_\_\_\_\_
4. What does the scripture Colossians 1:17 tell us about God and creation?
  - A. He is part of all things
  - B. He is before all things and holds everything together
  - C. He created everything only on Earth

5. Draw a line from each type of force to its effect.

Balanced Forces

Keep objects still

Unbalanced Forces

Cause motion or change

6. Can you name a time when forces kept something from moving?  
\_\_\_\_\_  
\_\_\_\_\_

7. Forces are \_\_\_\_ or pulls that can change an object's motion.

8. How might different surfaces affect an object's movement?

- A. Some surfaces are rough, causing more friction
- B. All surfaces are the same
- C. Surfaces do not affect movement

9. What did you learn about God's design in the laws of motion?  
\_\_\_\_\_  
\_\_\_\_\_

10. Forces are everywhere in God's amazing \_\_\_\_.

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### Answer Key

1. Equal forces acting in opposite directions 2. move 3. Because they are equal and opposite, so they cancel each other out. 4. He is before all things and holds everything together 5. Keep objects still 6. An example is a book resting on a table. The table's force keeps it still. 7. pushes 8. Some surfaces are rough, causing more friction 9. God created everything to work in a specific way, including forces. 10. creation