

# Pendulum Energy Swings Review

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## Understanding Energy Transformation

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

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

Answer the following questions based on what you learned about pendulums and energy.

1. What type of energy does a pendulum have at its highest point?
  - A. Kinetic energy
  - B. Potential energy
  - C. Thermal energy
2. As a pendulum swings down, potential energy transforms into \_\_\_\_ energy.
3. The energy in a pendulum disappears as it swings.  
 True       False
4. What happens to the pendulum's energy at its lowest point?  
\_\_\_\_\_  
\_\_\_\_\_
5. According to the lesson, what does energy transformation in a pendulum demonstrate?
  - A. Energy can disappear
  - B. Energy is always conserved
  - C. Energy is never predictable
6. God's laws maintain order in the \_\_\_\_, just like the consistent motion of a pendulum.
7. Potential energy is the energy of motion.  
 True       False
8. How does the movement of a pendulum reflect God's design in nature?  
\_\_\_\_\_  
\_\_\_\_\_
9. What is the main principle illustrated by pendulum motion?
  - A. Energy can be created
  - B. Energy can be transformed
  - C. Energy cannot be measured
10. In Colossians 1:17, it says that in Him all things \_\_\_\_ together.

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### Answer Key

1. Potential energy 2. kinetic 3. False 4. At its lowest point, the pendulum has maximum kinetic energy and minimum potential energy. 5. Energy is always conserved 6. universe 7. False 8. The predictable energy transformations in a pendulum show that God created laws that govern how things work in the universe. 9. Energy can be transformed 10. hold