

Stored Energy: Potential Power

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Understanding Potential Energy

Name: _____

Date: _____

Answer the following questions based on the lesson about potential energy.

1. What is potential energy and why is it important in our understanding of energy?

2. Which of the following is NOT an example of potential energy?

- A. A stretched rubber band
- B. A ball held high
- C. A running car

3. Potential energy is energy that is currently in motion.

- True False

4. An example of potential energy is a ____ held up high.

5. How can potential energy be transferred to kinetic energy? Give an example.

6. What does Proverbs 10:4 teach us about effort and potential?

- A. Effort is useless
- B. Diligence leads to wealth
- C. Wealth comes without work

7. God designed energy to be transferred in creative ways.

- True False

8. Batteries store ____ energy that can be used to power devices.

9. Can you think of something in nature that shows stored energy? Describe it.

10. Which of these is a key point about potential energy?

- A. It is always moving
- B. It is stored and waiting to be used
- C. It cannot be transformed

Answer Key

1. Potential energy is stored energy waiting to be used. It is important because it helps us understand how energy can be transformed into different forms. 2. 2 3. False 4. ball 5. Potential energy can be transferred to kinetic energy when an object is released. For example, when a ball is dropped, the potential energy it had at height turns into kinetic energy as it falls. 6. Diligence leads to wealth 7. True 8. potential 9. A tree has stored energy in its branches and leaves. When the wind blows, this potential energy can cause the branches to move. 10. It is stored and waiting to be used

