

ANSWER KEY TEACHER COPY

11. **Kinetic Energy** is the energy of motion.

12. A rubber band is an example of elastic energy, a specific type of potential energy.

- a. Gravitational
- b. Chemical
- c. Elastic

13. Give an example of something with **radiant** energy.

This sun gives radiant energy, or light energy with radiations, electromagnetic waves travel and transfer the energy of the sun to the Earth and living organisms.

14. The **plasma ball** demonstrates the transfer of energy. What are the main specific transfer of energy associated with the plasma ball?

Electrical Energy → kinetic energy / motion

Chemical Energy → radiant energy / light

15. **CALCULATE:** An elephant with a mass of 2,400 kg is running at a speed of 4 m/s. What is the **Kinetic Energy** of the elephant? Formula: $K.E. = \frac{1}{2}mv^2$

The Kinetic Energy of the Elephant is: $\left[\frac{1}{2} 2,400 \text{ kg} \cdot 4 \text{ m/s}^2 \right]$

27,200 J

16. A **potato gun** is an example of potential to kinetic energy transfer. (what to what?)

- a. Chemical to Radiant
- b. Potential to Kinetic
- c. Kinetic to Sound
- d. Motion to Elastic

17. **Potential Energy** is energy that is stored in an object due to its position.

18. **CALCULATE:** A bus with a mass of 1,400 kg is traveling at a speed of 50 m/s. What is the **Kinetic Energy** of the bus? Formula: $K.E. = \frac{1}{2}mv^2$

The Kinetic Energy of the Bus is: $\left[\frac{1}{2} 1,400 \text{ kg} \cdot 50 \text{ m/s}^2 \right]$

2,650,000 J

19. **LABEL:** The Energy Transfer Diagrams below to show growing, picking, and digesting an apple. What type of energy is transferred at each phase?



Growing Phase = radiant Energy

Picking Phase = kinetic Energy

Digesting Phase = chemical Energy

20. **CALCULATE:** A 10 kg bowling ball is falling at a rate of 50 m/s. What is the **Kinetic Energy** of the ball? Formula: $K.E. = \frac{1}{2}mv^2$

The Kinetic Energy of the Ball is: $50 \text{ m/s} \cdot 10 \text{ kg} = 5 \text{ m/s} \cdot 10 \text{ kg} \cdot 5 \text{ m/s}^2$

125 J

Science Explorer Physical Science Answer Key

N Noddings



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