

# Unit Test

## Energy & Energy Transfer (For Physical Science)

Test Name: Physical Science - Energy & Energy Transfer

Version: A

Points Possible: 50

Student Name:

Date:

### Part I: Multiple Choice (2 Points Per Question)

Question 1: You pick up a book and place it on a shelf. What type of energy does the book have after it is placed on the shelf?

- A. Mechanical Energy
- B. Gravitational Potential Energy
- C. Chemical Energy
- D. Electrical Energy

Question 2: Which of the following is the best definition for "energy"?

- A. The ability to do work
- B. The transfer of energy by a force
- C. The energy an object has due to its motion
- D. The rate of doing work

Question 3: Which of the following is the best definition for "power"?

- A. The transfer of energy by a force
- B. The ability to do work
- C. The energy an object has due to the motion of its molecules
- D. The rate of doing work

Question 4: Which of the following is the energy input for a lamp that is plugged into an electrical outlet?

- A. Electrical Energy
- B. Thermal Energy
- C. Chemical Energy
- D. Electromagnetic Energy

Question 5: Which of the following forms of energy results from the movement of electrically charged particles (current)?

- A. Thermal Energy
- B. Electrical Energy
- C. Electromagnetic Energy
- D. Elastic Energy

### Part II: Calculations (2 Points Per Question)

Question 16: A bowling ball hits a stationary bowling pin with 21 N of force, moving the pin 1.2 meters. How much work was done? (Use the formula  $W = Fd$ ). Be sure to show your work and include units.

Question 18: A car has a mass of 1,500 kg and is moving at a speed of 30 m/s. How much kinetic energy does it have? (Use the formula  $KE = \frac{1}{2}mv^2$ ). Be sure to show your work and include units.

### Part III: Fill in The Blank (2 Points Per Question)

Question 17: For each form of renewable energy below, name the energy input. Use the forms of energy listed in the chart below. You will use each one once.

\_\_\_\_\_ Solar Energy  
\_\_\_\_\_ Geothermal Energy  
\_\_\_\_\_ Wind Energy  
\_\_\_\_\_ Biomass/Bioenergy

#### Blank Bank

Mechanical Energy  
Chemical Energy  
Thermal Energy  
Radiant Energy

### Part IV: True/False (2 Points Per Question)

Question 19: Determine if each statement is true (T) or false (F).

- \_\_\_\_\_ When a ball is dropped, its total energy increases as it falls.
- \_\_\_\_\_ An energy-efficient device creates less energy, so heat.
- \_\_\_\_\_ Replacing dark-colored roofs with light-colored roofs can help reduce the urban heat island effect.
- \_\_\_\_\_ An object at rest will never have any form of energy.
- \_\_\_\_\_ Kinetic energy depends on both an object's mass and velocity squared.
- \_\_\_\_\_ Gravitational potential energy increases as an object is raised higher.
- \_\_\_\_\_ Friction causes some mechanical energy to be converted into thermal energy.
- \_\_\_\_\_ When a stretched rubber band is released, its kinetic energy is converted into potential energy.

- Covers forms of energy, energy transformations, work, renewable forms of energy, calculating work and kinetic energy, and more!
- Includes two versions and answer keys!
- Suitable for middle or high school physical science

# Modern Biology Energy Transfer Answer Key

**Yi-Tong Ma**



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