

Middle Grades General Science 5-9

**Florida Teacher Certification Examination
Test Preparation Course**

Science Matters: Energy Works

Video Assessment

Teaching & Leadership Center

DIRECTIONS: Read each item and select the best response.

1. Scientists describe energy as

- A. a change in the entropy of a closed system.
- B. the motion of an object.
- C. the ability to do work.
- D. a state of matter that can not be created or destroyed.

2. Which of the following is not needed for photosynthesis to take place?

- A. light energy
- B. water
- C. carbon dioxide
- D. soil

3. Within the Sun, atoms are squeezed together resulting in a tremendous release of energy.

This joining of atoms is called

- A. fusion.
- B. fission.
- C. recombination.
- D. radioactivity.

4. How is energy changed from one form to another for use in a portable generator?

- A. chemical energy to mechanical energy to electrical energy
- B. chemical energy to atomic energy to mechanical energy
- C. mechanical energy to atomic energy to electrical energy
- D. chemical energy to mechanical energy to friction

5. A hot burner moves thermal energy to a cooler pan through

- A. sublimation.
- B. conduction.
- C. evaporation.
- D. electron transfer.

6. Energy comes to us from the Sun in the form of what we call

- A. wave-particle transfer.
- B. elemental matter transmission.
- C. Aurora Borealis.
- D. electromagnetic radiation.

7. At the highest energy level, the Sun emits what we call

- A. x-rays.
- B. ultraviolet rays.
- C. gamma rays.
- D. visible light.

8. The type of radiation used to communicate information to TVs via remote control is called

- A. microwave.
- B. infrared.
- C. ultraviolet.
- D. nuclear.

9. Energy of motion is called

- A. potential energy.
- B. kinetic energy.
- C. temperature.
- D. chemical energy.

10. Which scientific law describes the idea that energy cannot be created or destroyed?

- A. Law of Conservation of Energy
- B. Third Law of Motion
- C. First Law of Thermodynamics
- D. Ohm's Law

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1. C

2. D

3. A

4. A

5. B

6. D

7. C

8. B

9. B

10. A