Unit 5 – Forms of Energy and Energy Transfer

Worksheet (Without Answers)

A. Multiple Choice Questions (MCQs)

- 1. Energy is the ability to:
- 2. Plants make food by using energy from the:
- 3. Energy that helps us see is called:
- 4. An echo is caused by:
- 5. Heat moves from:
- 6. Electricity flows through:
- 7. Which one is a renewable source of energy?
- 8. Sound travels as:
- 9. What kind of energy does a burning candle give off?
- 10. Solar panels convert sunlight into:

B. True or False

- 1. Energy can be created and destroyed.
- 2. The Sun is the main source of energy for Earth.
- 3. Everything that moves has energy.
- 4. Shadows are formed when light passes freely through objects.
- 5. Sound is made by vibrations.
- 6. Heat travels from cold things to hot things.
- 7. Water boils at 0°C.
- 8. A fuse helps protect electrical appliances from damage.
- 9. Plants store energy as chemical energy.
- 10. Light travels slower than sound.

C. Fill in the Blanks

- 1. Energy is the ability to _____ or move an object.
- 2. Plants use energy from the _____ to make food.
- 3. _____ energy helps us to see things around us.
- 4. The repetition of sound due to reflection is called an _____.
- 5. Heat always moves from a _____ object to a _____ one.
- 6. _____ is used to measure temperature.
- 7. The flow of electric current through wires forms a _____.
- 8. A _____ melts when too much current flows through a circuit.
- 9. Rainbows are formed when sunlight passes through _____.
- 10. Energy can be changed from one form to another; this is called energy _____.

D. Short Answer Questions

- 1. Explain what energy is and why it is important.
- 2. Name any three ways you use energy at home.
- 3. Describe how plants make and store energy.
- 4. What happens when light hits a mirror?
- 5. How are shadows formed?
- 6. Give two examples of sound energy in everyday life.
- 7. How is heat transferred from a hot cup to your hand?

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- 8. What are the two temperature scales and how do they differ?
- 9. List the main parts of an electric circuit.
- 10. Why is it important to conserve energy? Give two ways to do it.

E. Match the Columns

- 1. Solar panel ..... a. Reflection of sound
- 2. Echo ..... b. Uses electricity to work
- 3. Candle ..... c. Converts sunlight into electricity
- 4. Light bulb ..... d. Source of heat and light
- 5. Wind turbine ..... e. Converts motion energy into electrical energy

F. Diagram Practice

- 1. Label the parts of a simple electric circuit.
- 2. Draw a light ray reflecting on a mirror and label the incident and reflected rays.
- 3. Show heat transfer from a hot to a cold object using arrows.
- 4. Illustrate the formation of a rainbow.

G. Thinking Questions

- 1. What would happen if there were no Sun?
- 2. Why do we hear an echo in empty halls but not in small rooms?
- 3. How can using renewable energy help our planet?
- 4. Why is light important for both plants and humans?
- 5. How do sound vibrations help us communicate?

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