

Energy on the Move

Observe clues that show different forms of energy.

SC.4.P.10.1 "Observe and describe some basic forms of energy, including light, heat, sound, electrical, and the energy of motion."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline one observation that shows each form of energy. Write 1 for light, 2 for heat, 3 for sound, 4 for electrical, and 5 for energy of motion beside your underlines.

Maya's Garden Walk

- ① During a class walk, Maya stopped near the school garden. Sunlight shone on a dark bench, making it warm to touch. The sunlight is light energy, and the warm bench shows heat energy. Light can travel from the Sun or a lamp. Heat can move from a warmer object to a cooler one. Maya used her eyes and skin safely to notice both forms.
- ② Near the garden, a sprinkler clicked and water splashed into a tub. These vibrations made sound energy that Maya could hear. A small battery powered the sprinkler timer. Electrical energy traveled through wires in the timer and helped it work. Electrical energy can make devices operate, produce light, or create sound. Maya did not touch the wires or battery.
- ③ Then Maya rolled a soccer ball across the grass. A moving ball has energy of motion. When the ball hit a cone, it made the cone slide, showing that motion can cause changes. The ball slowed because grass and air pushed against it. Maya listed what she observed: sunlight, warmth, splashing sounds, a working timer, and moving objects.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What observation showed light energy, and what observation showed heat energy?

2 What made the sound energy near the garden?

3 How did electrical energy help the sprinkler timer?

4 What happened when the moving soccer ball hit the cone?

3 YOUR TURN _____ Your own words

Complete the table with five events you have observed. Use a different form of energy in each row, and write an observation that is a clue for that energy.

FORM OF ENERGY	OBJECT OR EVENT	OBSERVATION CLUE

PART 1 • READ AND MARK

Underline one observation that shows each form of energy. Write 1 for light, 2 for heat, 3 for sound, 4 for electrical, and 5 for energy of motion beside your underlines. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What observation showed light energy, and what observation showed heat energy?	Sunlight shining on the bench showed light energy. The bench becoming warm to touch showed heat energy.
2	What made the sound energy near the garden?	The sprinkler clicking and water splashing made sound energy.
3	How did electrical energy help the sprinkler timer?	Electrical energy traveled through wires in the timer and helped it work.
4	What happened when the moving soccer ball hit the cone?	The cone slid.

PART 3 • YOUR TURN (SAMPLE ANSWER)

FORM OF ENERGY	OBJECT OR EVENT	OBSERVATION CLUE
Light energy	Lamp in a room	The lamp gave off light so I could see.
Heat energy	Bowl of soup	The bowl felt warm.
Sound energy	Drum	I heard a beat when the drum was tapped.
Electrical energy	Flashlight	A battery helped the bulb shine.
Energy of motion	Bicycle	The bicycle rolled down the sidewalk.

Accept equivalent observations that correctly connect each form of energy to a clear clue. For the table, accept reasonable everyday examples when each row has a different form and an accurate observation.