



SCIENCE

CHAPTER 7- ENERGY

LESSON 5- USING ELECTRICAL ENERGY



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HOW IS ELECTRICAL ENERGY USED?

HEAT

- ❖ A toaster uses electrical energy to give us heat.
- ❖ A hairdryer uses electrical energy to give us heat.



LIGHT

- ❖ A lamp will use electrical energy to give us light.
- ❖ Electrical energy is used to light buildings, vehicles, and streets.



MOTION

- ❖ A fan will use electrical energy to give us motion- the fan blades move.
- ❖ Train moving, electric toys, washing machines convert electrical energy into motion.



There are 2 types of bulb

INCANDESCENT BULB

- ❖ It produces heat and light.
- ❖ Inside an incandescent bulb is a thin wire called a filament. As the filament resists electric current, it heats up and glows.

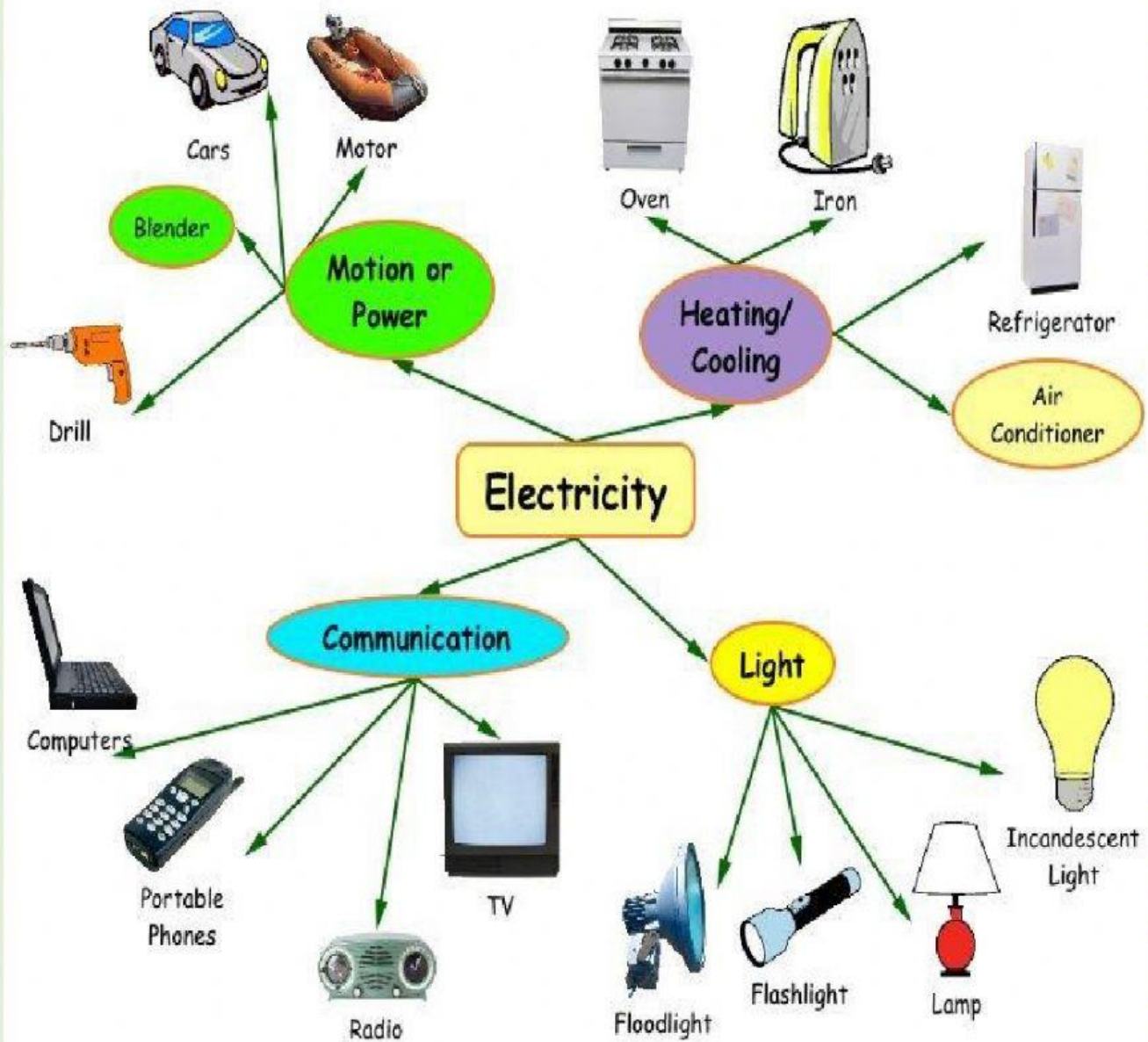


FLUORESCENT BULB

- ❖ It uses a gas to produce light.
- ❖ Electric current makes the gas glow.
- ❖ Fluorescent bulbs do not become as hot as incandescent bulbs



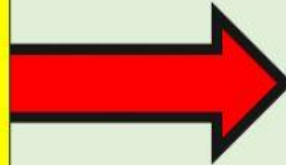
Uses Of Electricity In Our Daily Life



**WATCH VIDEO ABOUT CREATING ELECTRICAL ENERGY AND USING IN
DIFFERENT WAYS**



**CLICK ON BULB ICON TO
EXPLORE LAB ABOUT
CONVERSION OF ELECTRICAL
ENERGY INTO HEAT, LIGHT,
AND MOTION**



QUESTIONS FROM BOOK

1. **Test Prep.** Which changes electrical energy into motion?

- A a paper airplane C an electric fan
B a toaster D a lamp

2. Electric current flows through a bulb's filament. What happens next?

TYPE
YOUR
ANSWER

3. Which changes electrical energy into motion?

4. Which changes electrical energy into heat?

5. Which changes electrical energy into light?

6. _____ bulb uses gas to produce light.