



**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 converts 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.

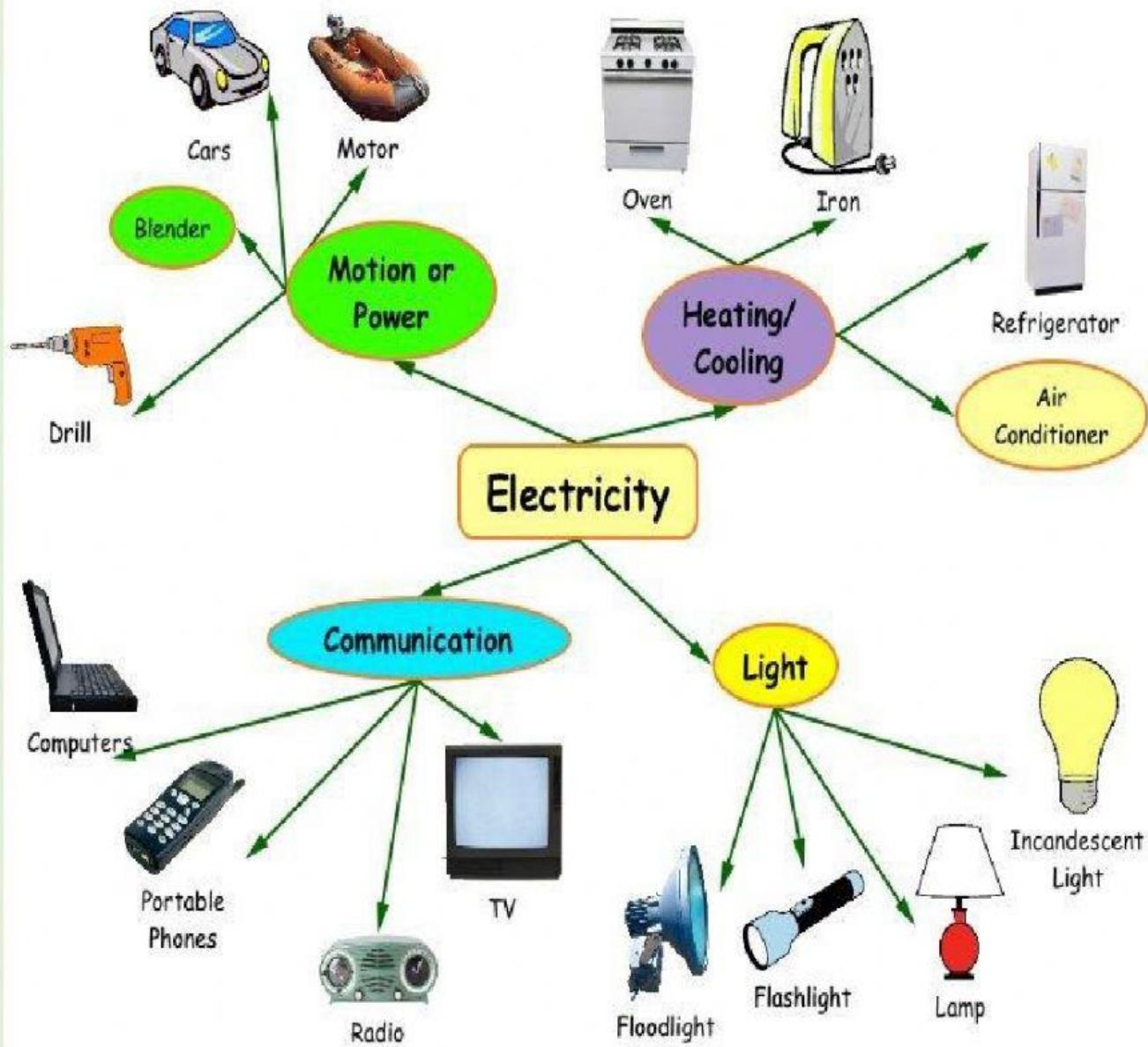


## FLUORESCENT BULB

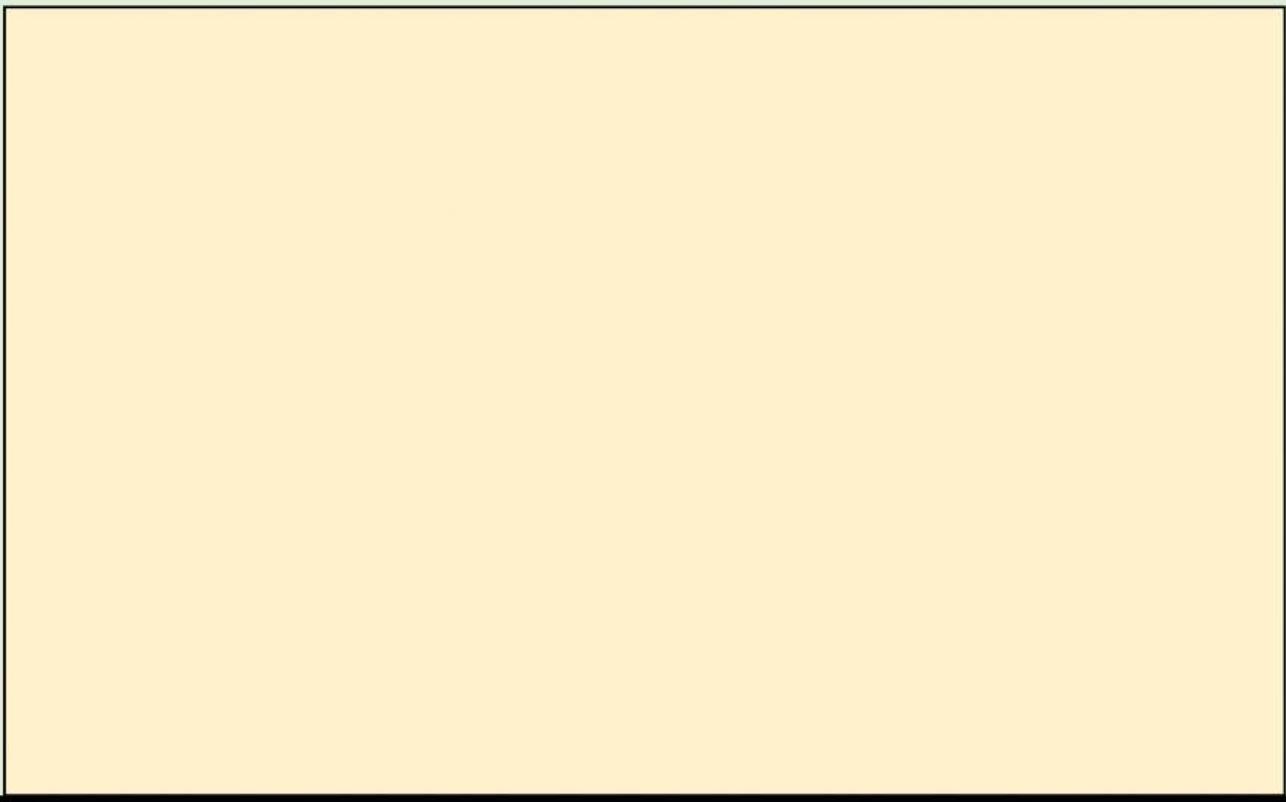
- ❖ It uses a gas to produce light.
- ❖ Electric current makes the gas glow.
- ❖ Fluorescent bulbs do not become as hot as incandescent bulbs



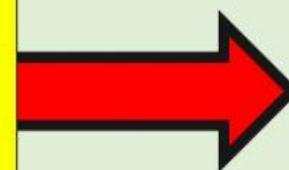
# Uses Of Electricity In Our Daily Life



**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?

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**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.