

Electricity

Worksheet

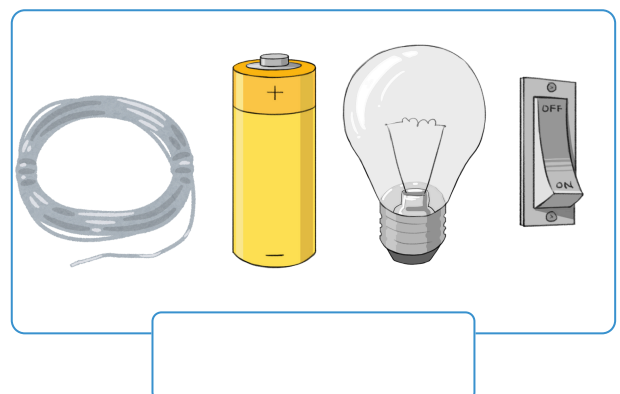
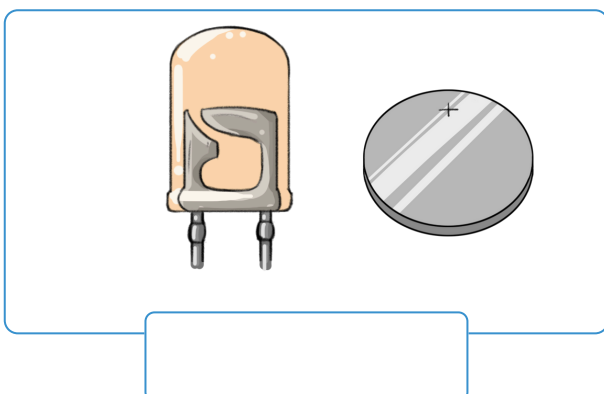
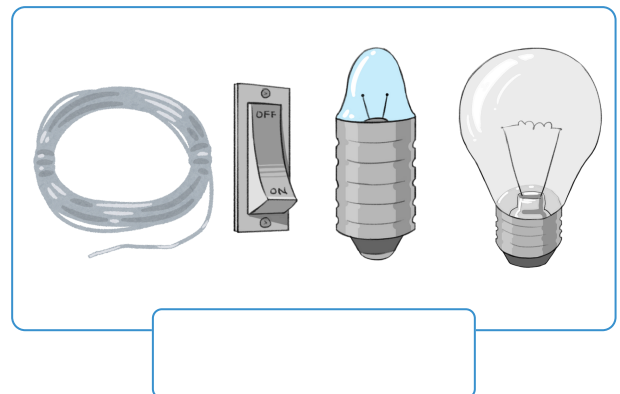
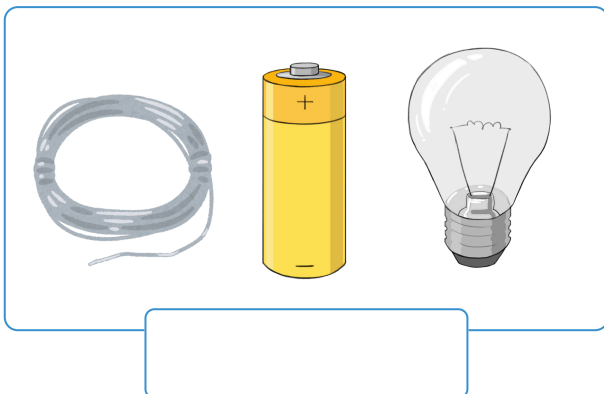
NCF and/or NCERT Learning Outcomes:

- To assess the understanding of basic electrical circuits.

Why should you learn this?

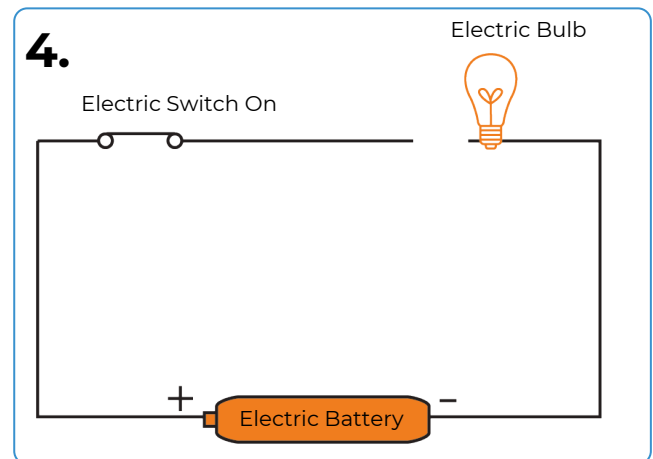
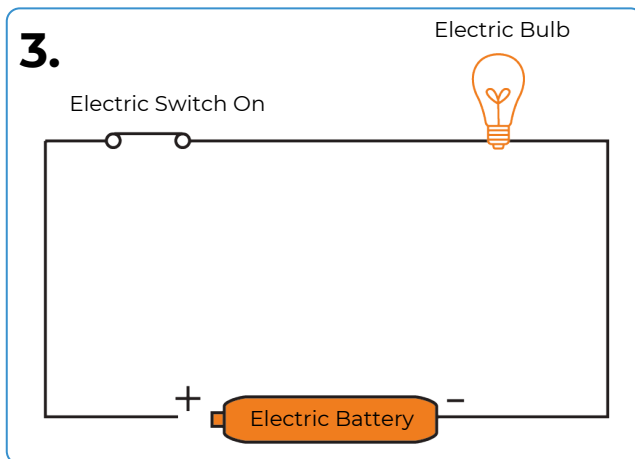
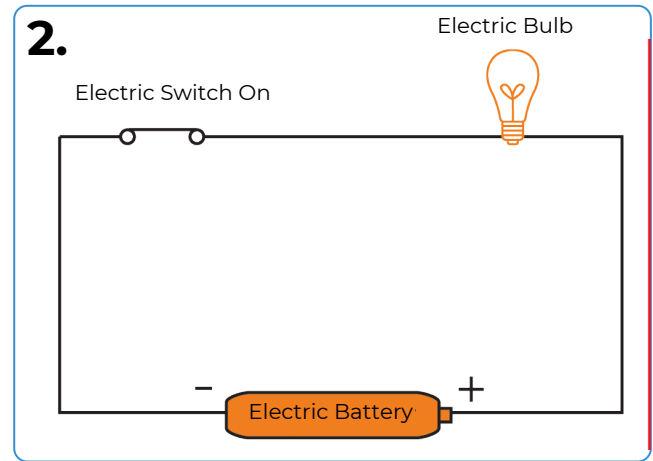
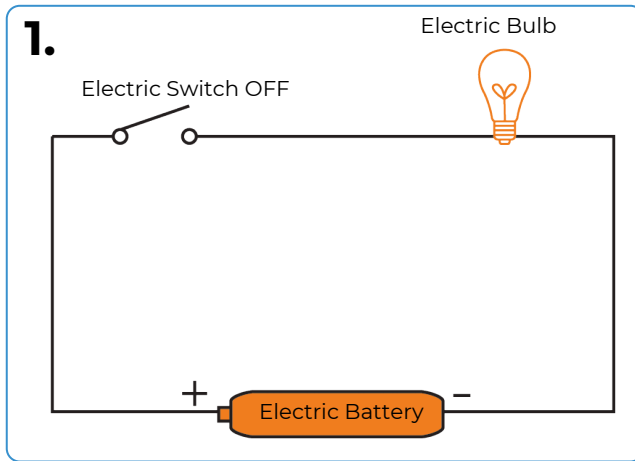
- Solving this worksheet helps you to self-assess your learnings and identify problem areas.

- 1** Below are four images. Which of the combination of components shown in the pictures will make the bulb glow? Mark ✓ or ✗ in the space below each picture.



Worksheet

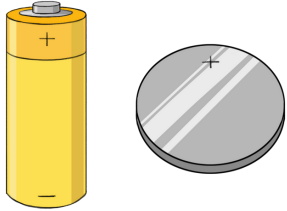



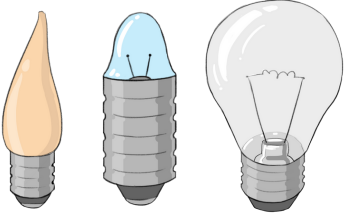
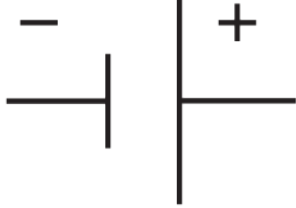


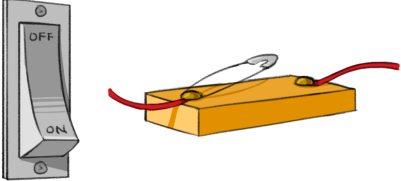

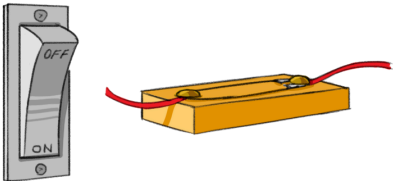
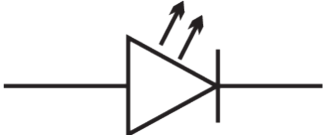
2 Look at the 4 electrical circuits shown below carefully. In which of them will the bulb glow? Is it an open circuit or a closed circuit?



Answer:

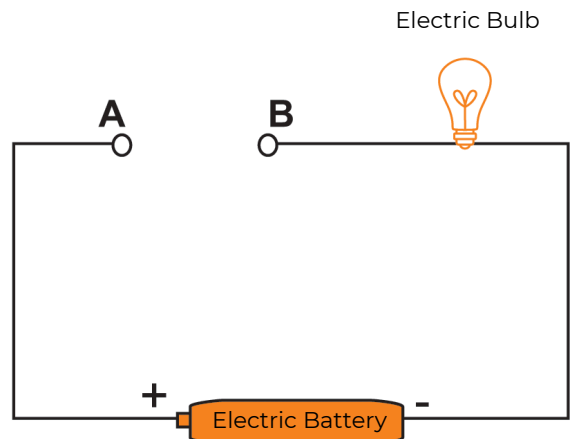
Worksheet

3 Match the given components with their correct symbols.

Components	Symbols
	
	
	
	
	
	

Worksheet

- 4** Which of the objects listed below will make the bulb glow when they are placed between points A and B in the given circuit? Why?

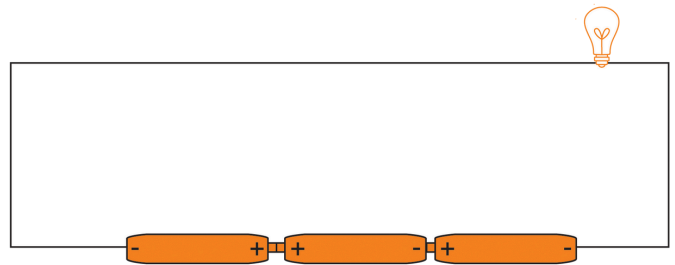


Sr. No.	Object	Will the bulb glow?	Why?
1	Pencil		
2	Nail		
3	Bicycle spoke		
4	Comb		
5	Paper		
6	A piece of wood		

Worksheet

- 5** Mahi has three cells, one bulb, and a wire. She has made a circuit, as shown in the picture. Will the bulb glow? Explain with reasons.

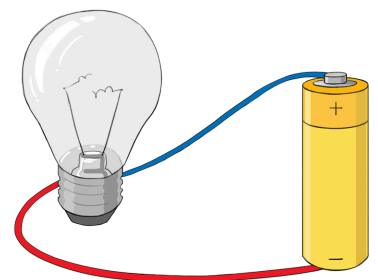
Answer:



- 6** Draw an electrical circuit diagram in the box/in your notebook using component symbols of a switch, a wire, a bulb, and a cell or a battery.

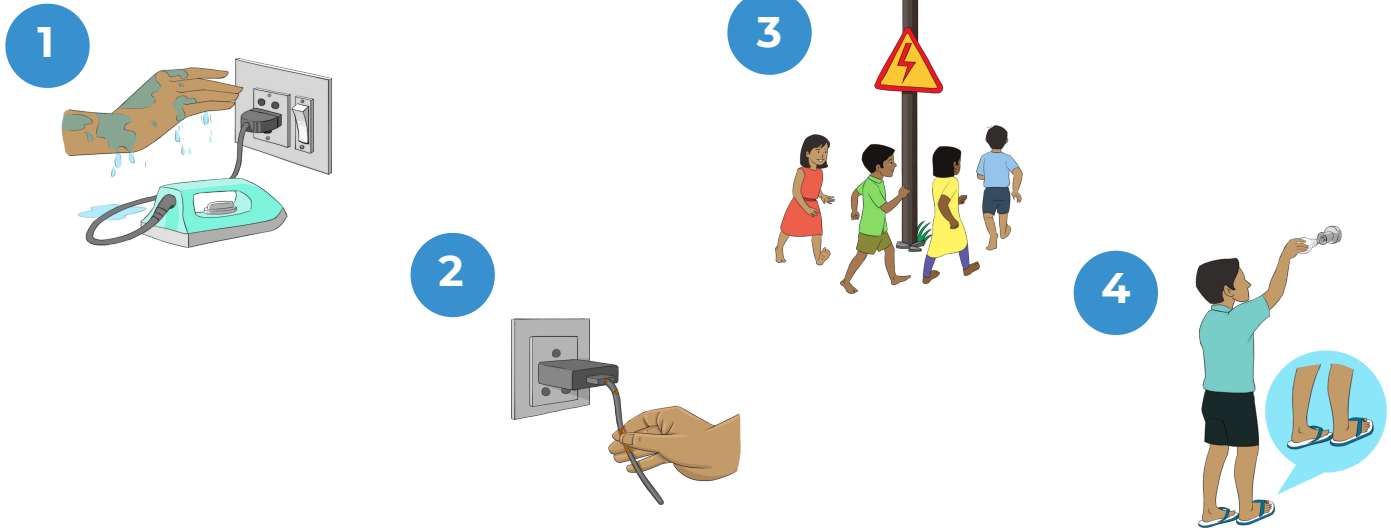
- 7** The cell is connected, and the wires are properly attached, but the bulb is not lighting up. What could be the reasons for this? Think and explain.

Answer:



Worksheet

8 In the pictures below, children are performing some activities. Are the activities safe? Explain with a reason.



Answer:

Name:.....

Standard:.....

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