

Name:	
Year:	Date:

### Unit 6: Electricity.

1. Siti sets up an electric circuit as shown in **Figure 12**. She found the bulb did not light up.

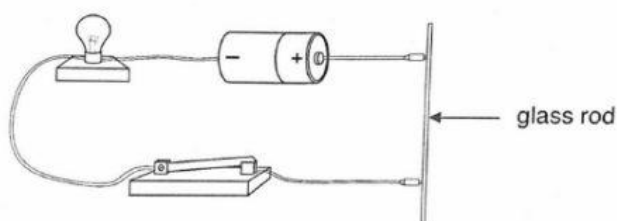


Figure 12

How can she make the bulb to light up?

- A. Add more dry cells.
- B. Use shorter wires and more dry cells.
- C. Use two light bulbs and longer wires.
- D. Replace the glass rod with an iron nail.

2. **Figure 13** shows how electrical energy is changed to different kinds of energy by electrical appliances at home.

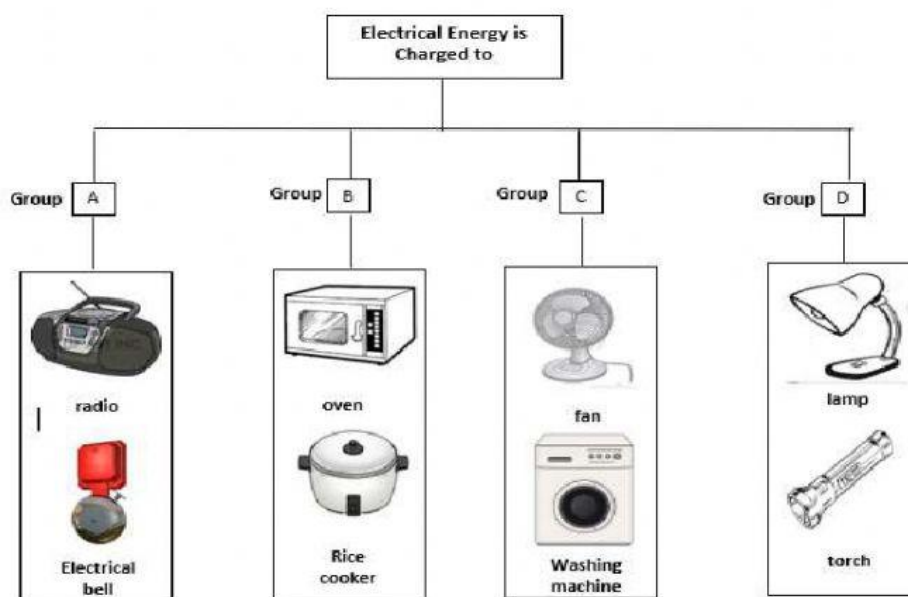


Figure 13

Which group does an electric iron belong to?

3. Study the diagram in Figure 14a.

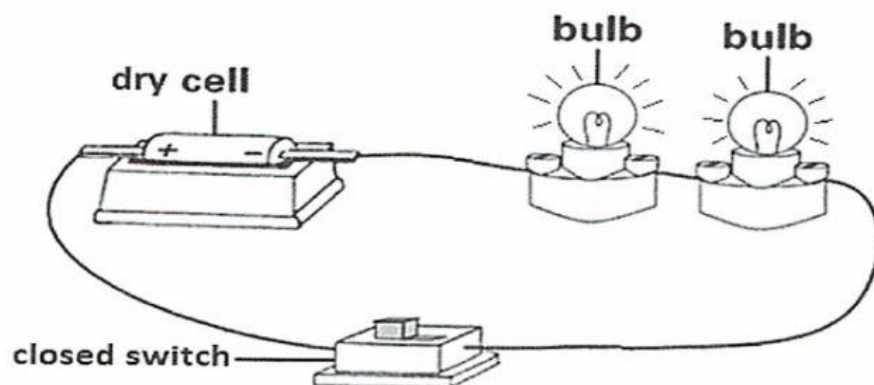
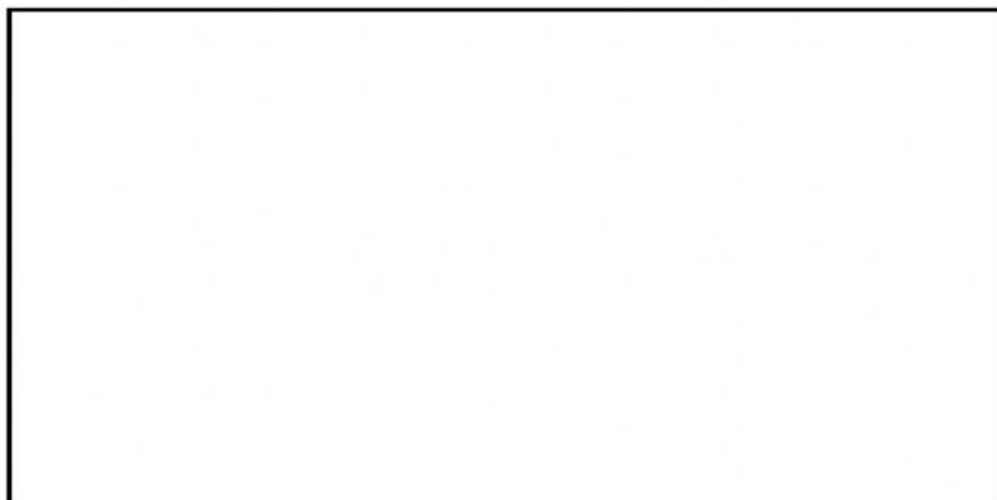


Figure 14a.

- a) The electrical system in **Figure 14a** is made up of a dry cell, two bulbs, a switch and wires. The two bulbs are lighted up. **Draw** a simple circuit to represent Figure 3a by using scientific circuit symbols in the box provided.



- b) Alya set up an experiment in **Figure 14b** below to find out if increasing the number of bulbs can affect the brightness of the bulbs in the circuit.

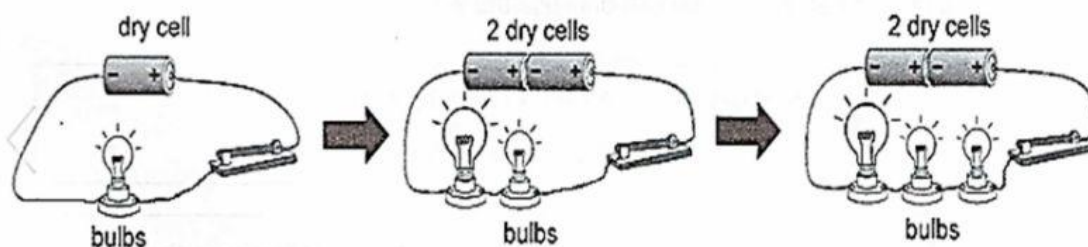
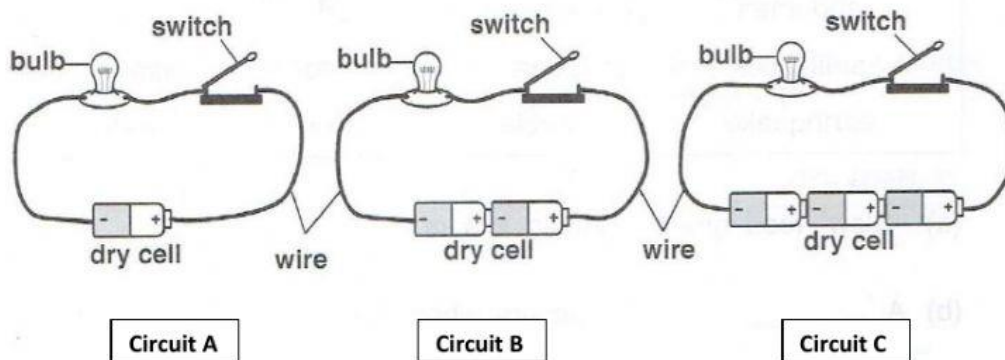


Figure 14b

Alya's experiment is **not** a fair test. Describe two things he should do to make his experiment fair.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

- c) **Figure below** shows electric circuit setups to find the effect of increasing number of dry cells used in a series circuit. (PSR, 2019)



- (i) Which circuit will be the **brightest**? \_\_\_\_\_
- (ii) Which circuit will be the **dimkest**? \_\_\_\_\_

[ 7 marks ]