

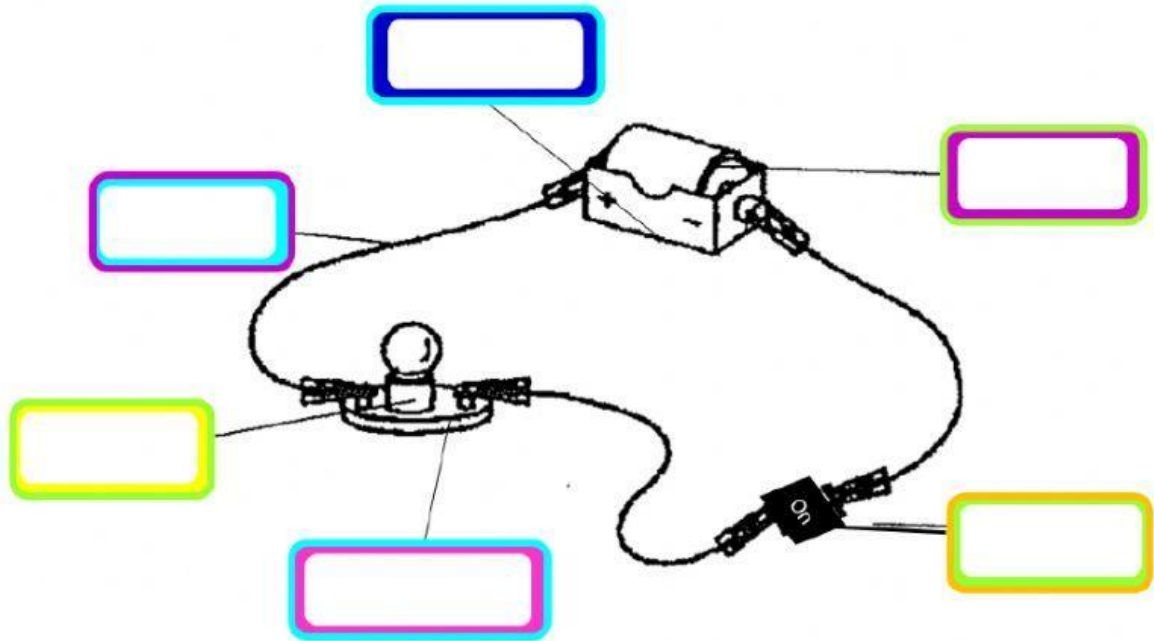
Name: _____

SCIENCE Class 5CI_____

Date: _____

Topics: Unit 5 Electrical Conductors and Insulators

1. Look at circuit below and label its components.

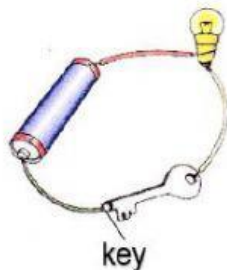


2. Which circuits used conductor or insulator materials.
Match.



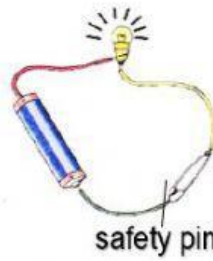
conductor

insulator



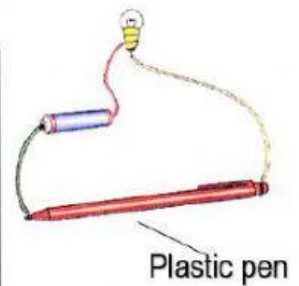
conductor

insulator



conductor

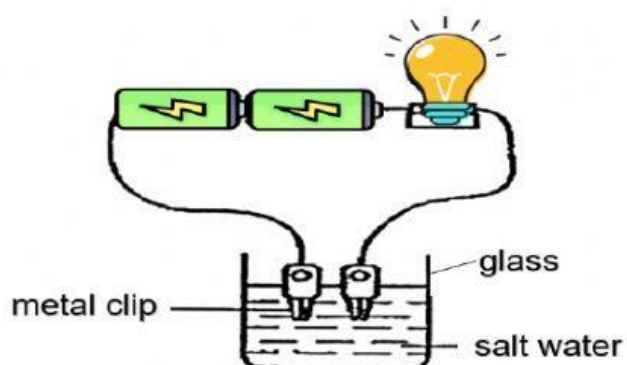
insulator



conductor

insulator

3. Jansen sets up an experiment as shown below.
When the metal clips are soaked in salt water, he observed that the **bulb lit up**.

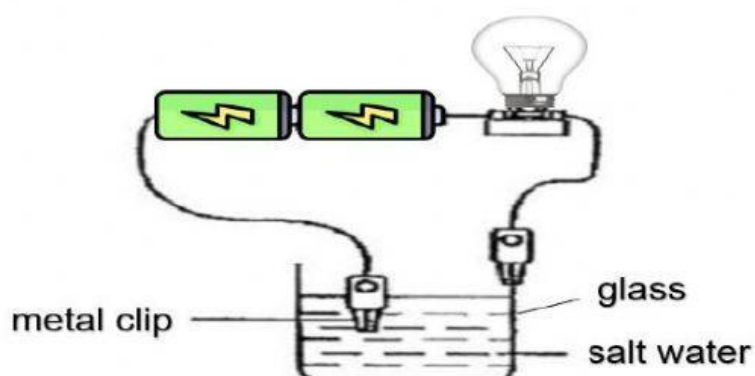


Based on Jansen's observation, what can he say about the water?

01 Saltwater is conductor. ►

02 Saltwater is insulator. ►

Jansen connected one of the metal clips to the glass as shown below.

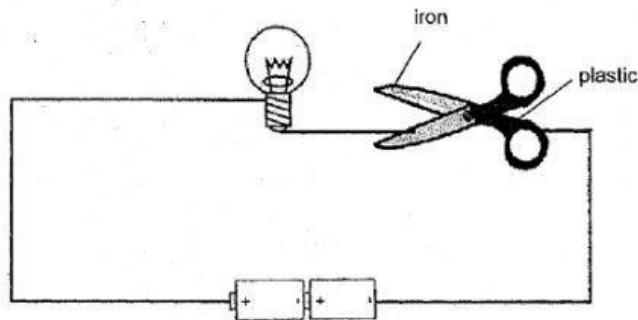


Would the bulb light up?

YES

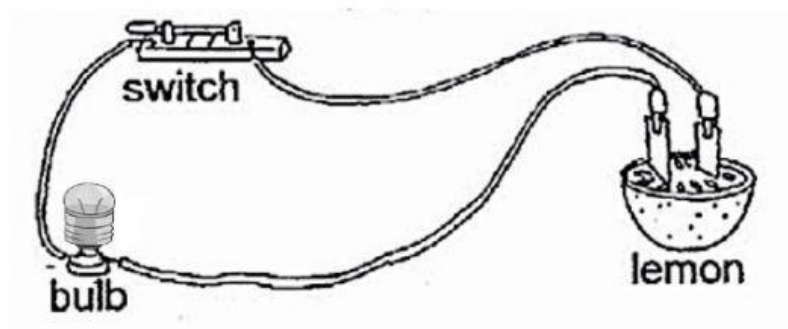
NO

4. Will the bulb light up?



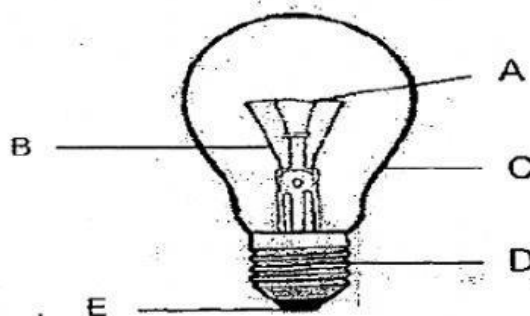
Yes
No

5. Will the bulb light up?



Yes
No

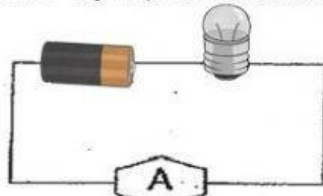
6. The diagram below shows the parts of a bulb.



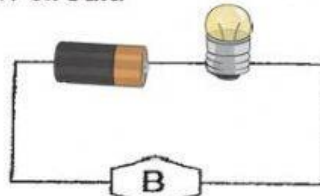
Which of the following best describe the parts of the bulb?

	Conductors of electricity	Insulators of electricity
(1)	A, D, E	B, C
(2)	A, B, D, E	C
(3)	A, B, C	D, E
(4)	C, D, E	A, B

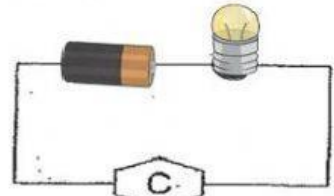
- 7., Kelly was given three circuits X, Y and Z as shown below. The bulbs and batteries in all the circuits are new and identical. Different objects, A, B and C, are connected in each circuit.



Circuit X



Circuit Y



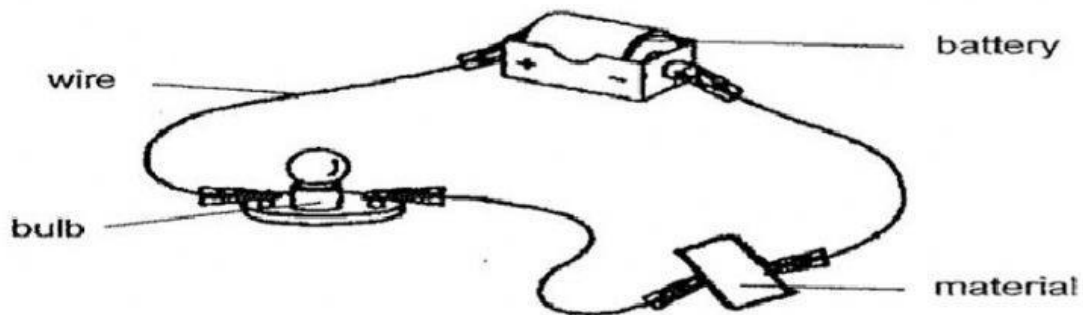
Circuit Z

Kelly made the following observations in her notebook.

- The bulb in circuit X did not light up.
- The bulbs in circuits Y and Z lighted up.
- The bulb in circuit Y was brighter than the bulb in circuit Z.

Which of the following is possible?

- (1) Object A is made of metal.
 - (2) Object C is another light bulb.
 - (3) Object B is an electrical insulator.
 - (4) Objects B and C are identical electrical wires.
8. Jonas set up a circuit tester as shown in the diagram below. He wanted to find out if the materials, P, Q and R, could conduct electricity.



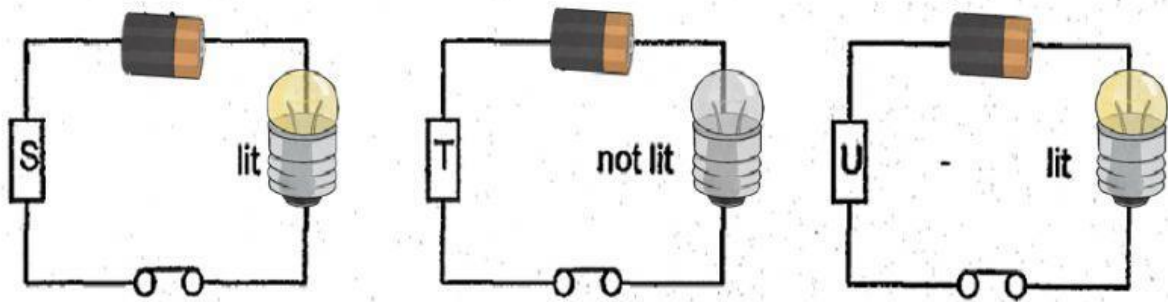
The results of the test were as follows:

Material	Did the bulb light up?
P	Yes
Q	No
R	Yes

Which one of the following could represent materials P, Q and R?

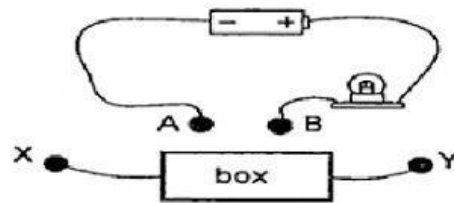
	P	Q	R
(1)	cotton	plastic	gold
(2)	gold	wood	aluminium
(3)	glass	aluminium	copper
(4)	copper	rubber	cotton

9. The diagram below shows what happens when different materials S, T and U are each connected in a separate circuit.



Which material is not an electric conductor?

10. Study the circuit below carefully.



When the wires X and Y of a box are connected to A and B of the circuit respectively the bulb lights up.
Which one of the following boxes is used?

