## Activity 7: Complete the sentences about circuits by selecting the correct words.

- 1- When there is a break in the circuit the components (will work-will not work)
- 2- When the switch is open, the electricity (can-cannot) flow.
- 3- When the switch is closed, the electricity (can-cannot) flow. This means the buzzer (will-will not) work.
- 4- You can make a lamp in a circuit brighter by (adding more bulbsadd a switch - add more batteries)

## Activity 8: Match each description to the correct word.

1-This makes a break in the circuit electricity cannot flow

2-These flow around the circuit and create electricity.

Particles (electrons)

Component

3-This completes the circuit and electricity can flow.

4-This slows down the flow of electricity but does not stop.

Closed switch

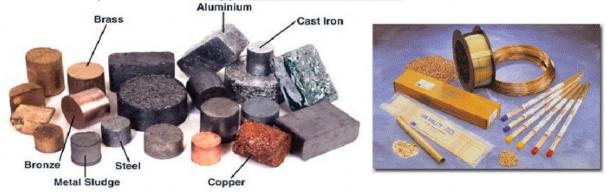
Open switch

## Activity 9: Match the components with the words. Lamp (bulb) Battery Wire Switch Activity 10: What will happen if you add lamps to the circuit? Tick the correct box. -When we added another lamp to the circuit, the lamps...... Got brighter 🔲 got less bright (dimmer) Stayed the same -What can you do to make both lamps brighter? 2

## Electric conductors and electric insulators.

**Conductors** are materials that let electric charges move through them easily.

For example, metals as <u>copper</u>, <u>silver</u>, <u>aluminium</u>.



*Insulators* are materials that don't let electric charges move through them easily.

For example, wood, plastic rubber.



	COPPER	
	45	
y do we use switches?		
tches are used to turn electricity on and off.		
ey are used in circuits to control the flow of e	850	
vould be very dangerous to leave all the lights		pliances
tched on all the time. It would also be very ex tches need to be conductors to complete the	**	
tches are put in insulators so they wouldn't co		ic shock
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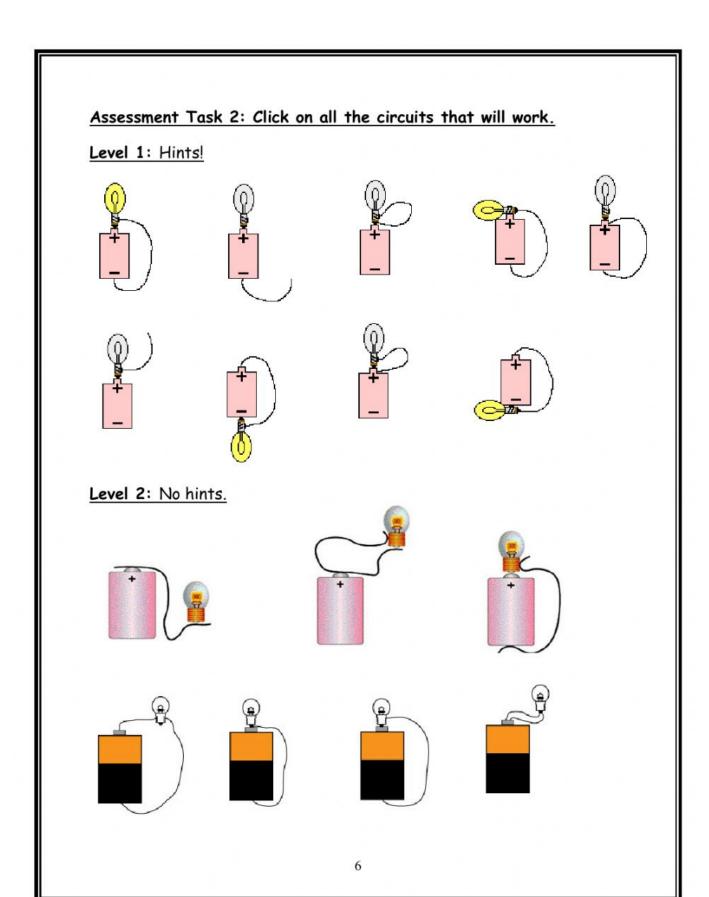
4

Open switch

Closed switch

Assessment Task 1: Using symbols to draw electric circuits. Battery Motor Closed switch Lamp Open switch In the box below drag and drop components to make the circuit in the diagram below:

5



Elect	ricity '	True o	r False	?		
STATEMENT	YES	NO		MAKE	ΙT	RIGHT
You don't need wires to connect an electric circuit						
This is the symbol used to represent a cell.						
If you add another bulb to a circuit with one bulb, both lamps will become brighter.						
This is the symbol used to 4 represent a lamp in a circuit.						
The bulb in  this circuit will light.						
This diagram represents a complete circuit.						

7

	- 1
The bulb in this circuit	
will light.	
7	
interior marks	
Sight halfs	
A-Alicha 40 William Call Call Call Call Call	
Activity 12: Which of the following objects can ye	
the circuit below? Plastic cup - wooden spoon - ir	on nail - Paper.
Explain your choice.	
Explain your choice.	
	+
	主 (長)
	open circuit
	open circuic
	open circuit