Simple circuits

1. Make a simple circuit using two wires, a bulb, a bulb holder and a cell.

2. Draw and label a diagram then explain what happened.

3. Substitute another component into the circuit.

4. Draw and label a diagram then explain what happened.

5. To a simple circuit add another bulb.

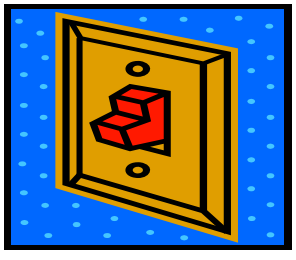
6. Draw and label a diagram then explain what happened

7. Using the last circuit add another cell

8. Draw and label a diagram then explain what happened.

9. Can you find out which component probably needs the most energy to work?

10. Record what you find out.



Simple circuits

Here is a simple circuit using two wires, a bulb, a bulb holder and a cell.

What happens?

Here is a simple circuit using two wires, a motor, a bulb holder and a cell.

What happens?

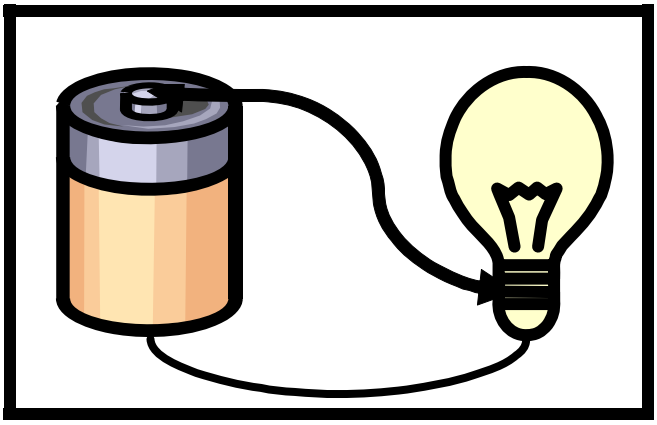
Here is a simple circuit using three wires, two bulbs, 2 bulb holders and a cell.

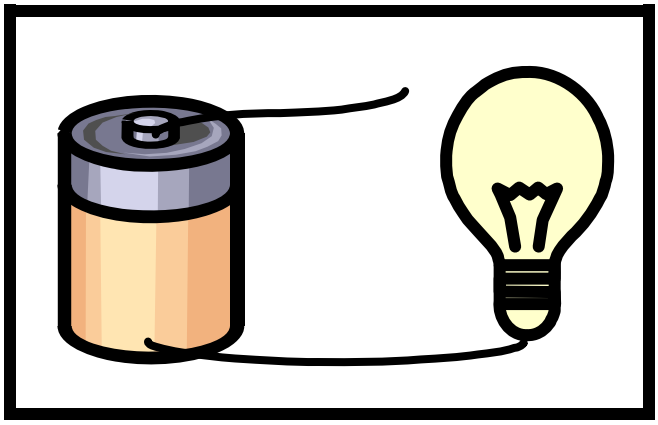
What happens?

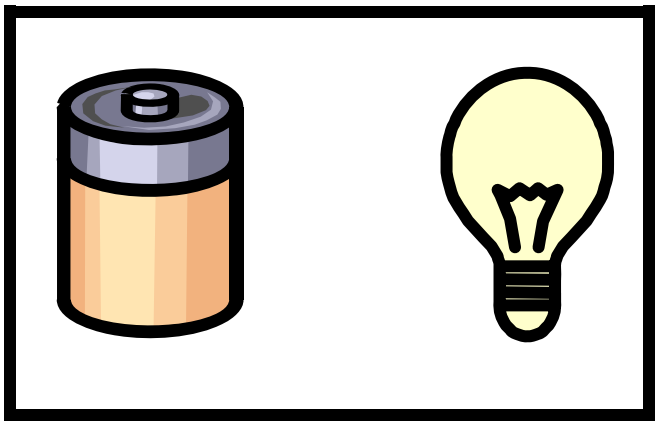
I think the component that needs the most energy is _____because _____

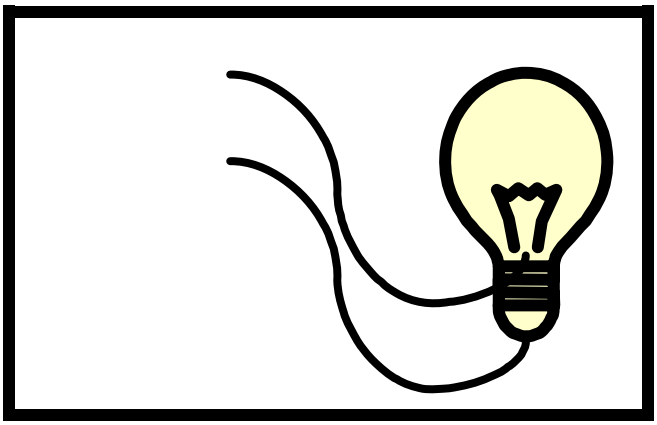
_____

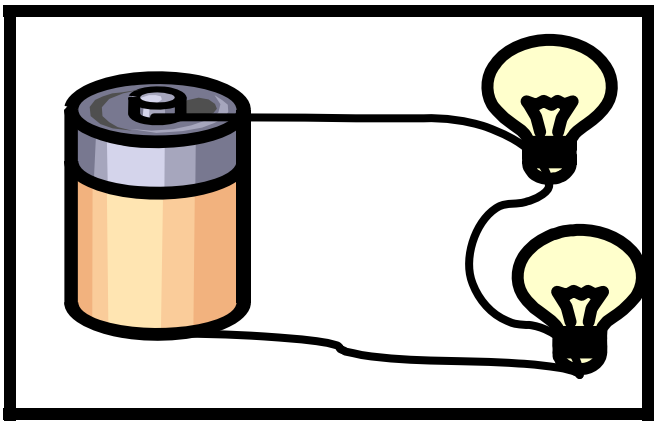
What happens ....and why?

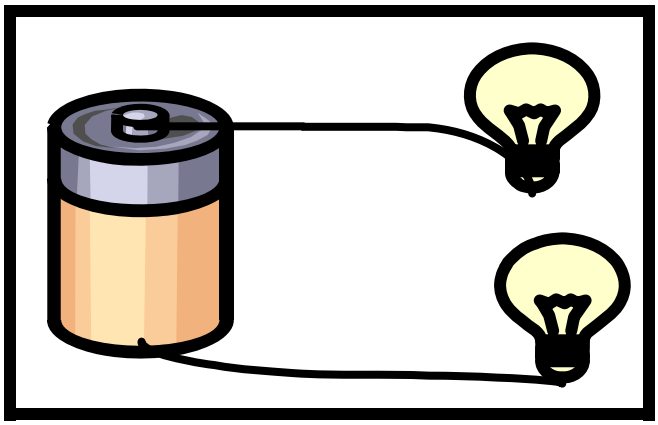


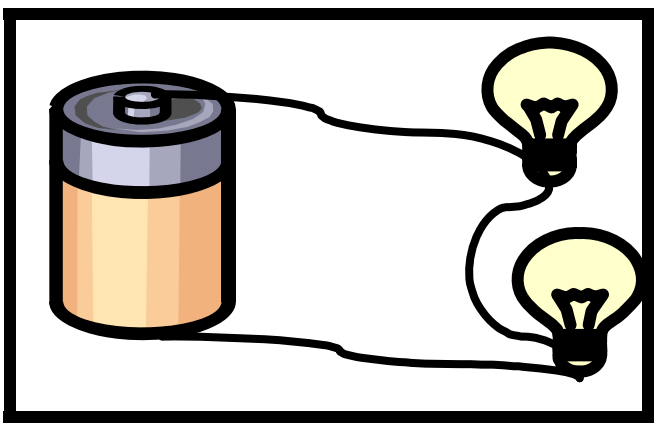


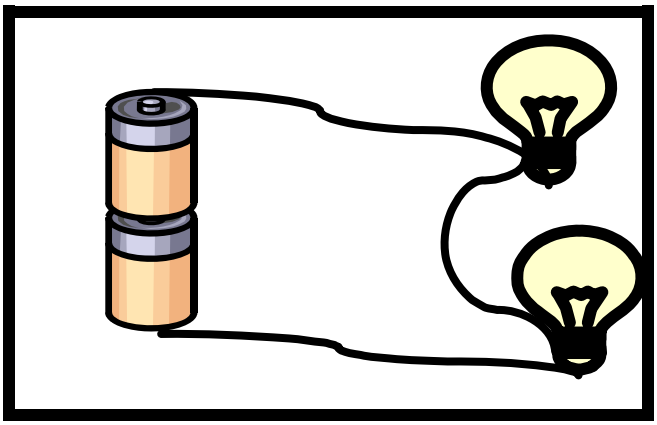












Electricity all around

Electricity goes from the power station to our homes, shops, and factories.
It travels along thick wires called …….
Metal towers called …….. hold the cables high above the ……..
In towns and cities there is no room for the pylons so the cables are put under the ……..
Thinner cables bring the electricity into your …….

pylons	ground	homes	cables

Where are the wires and cables in your home?
…….

What happens when we switch plug sockets on?
…….

Can you think of things that we would not be able to do without using electricity?
Write some of them below.

1. …….
2. …….
3. …….
4. …….
5. …….
6. …….

Name..... Date.....

Which materials are insulators and which are conductors of electricity?

Apparatus

Method

Material	What happened?	Insulator/ Conductor

What did you find out?

What type of materials conduct electricity?

What materials do not conduct electricity?

Why are insulators important?