**Electrical Circuits 1: Light Up the Class**

Light bulbs, wires, batteries and switches. These are all important in making electrical circuits. But how do you get them to work together? There is only one way to find out; try it!

**Materials:**

2 light bulbs 4 wires with alligator clips 9V battery 1 switch

Your task is to solve each of the following ***Electro Problems***. When you think you have solved the problem, draw your solution. Have your teacher check it.

**Electro Problem 1**

*How can you make a lightbulb go on?*

**Electro Problem 2**

*Can you make a lightbulb go on and off using a switch?*

**Electro Problem 3**

*Can you have 2 lightbulbs on at the same time?*

**Electro Problem 4**

*Can you make two lightbulbs go on, but when you unplug one of them, the other light stays on****?* HINT: you may need to share your materials with another group.**

**Follow-up Questions:**

* What materials did you need to make a lightbulb light up?
* In your own words explain how you think a lightbulb goes on when it is connected to a battery.
* Write a definition for the term ***electrical circuit***.