**Station #2: Parallel Circuits**

**Directions:**

Please complete the procedure described below to assist you in building a parallel circuit. When you are done make sure to check your mission sheet to see which questions are expected of you. Please complete the questions on your own loose leaf and include it with your mission work.

**Procedure:**

1. Create a series circuit using the materials provided: a battery pack, 1 switch, and 1 light bulb (L1) as well as various sized snap wires.
2. Add a 2nd load to your circuit (either the red LED (D1) or the motor (M1); however add this load in parallel.
3. Add the 3rd load in parallel to your circuit depending what is left.
4. Remove the 2nd load you added by unlatching it from the circuit on one side.

**Questions:**

1. What happens to the circuit including the light bulb when you add the 2nd load?
2. What about when you add the 3rd load?
3. A. Does adding loads create a different outcome in a parallel circuit than if you did the same thing in a series circuit?
4. Explain why.
5. What happened to the circuit when you removed the 2nd load?
6. A. What happens when you remove a load from a multiple load series circuit?

B. Why does this occur?