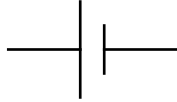





3. Using one battery pack, light as many bulbs *in holders* as you can. ***Sketch each of your arrangements, and note the ones that work.***

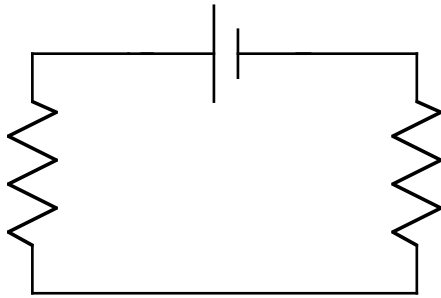
Diagrams for electric circuits use symbols like these:

 wire

 battery

 light bulb or any device that uses electrical energy in a circuit

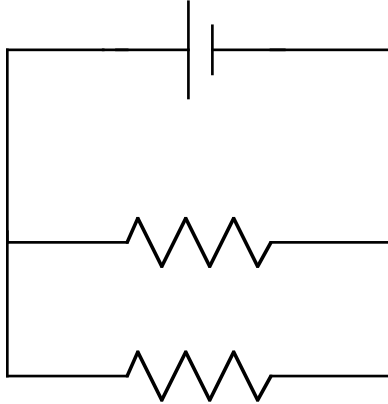
1. Connect two bulbs in holders, the battery pack, and wires as shown in the circuit diagram below:



This is an example of a *series* circuit. ***Do both bulbs light in this circuit?***

2. In the series circuit, with both bulbs lit, unscrew one of the bulbs. ***What happens to the other bulb?***

3. Now set up the circuit diagram shown below, and ask your teacher to check that your circuit is correct. This is an example of a *parallel* circuit.



- Do both bulbs light in this circuit?***
4. In the parallel circuit, with both bulbs lit, unscrew one of the bulbs. ***What happens to the other bulb?***
5. In your own words, describe the difference between series and parallel circuits.
6. Experiment with series and parallel circuits involving two or three bulbs. Pay special attention to the brightness of the bulbs in these different configurations. What types of circuits result in the brightest bulbs?