Name: Mission: **Circuit**
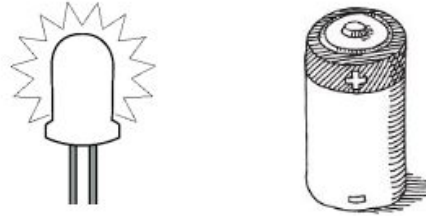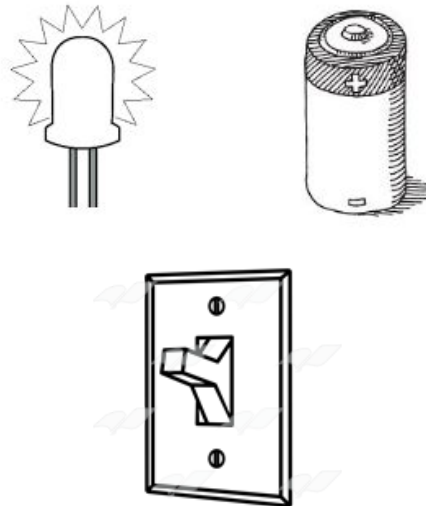
Date   Mission Code:

Circuits and electrical energy

Let's make light! Draw wires on the picture to show how you connected the light bulb to the battery.

Let's add a switch: Draw wires on the picture to show how you connected the light bulb, the battery and the switch.

Fill in the blank with these words: connected, broken

When the switch is ON, the circuit is _____ and electricity flows. When the switch is OFF, the circuit is _____ and the electricity does not flow.

**Connect two lights:** Draw wires on the picture to show how you connected the light bulbs to the battery.
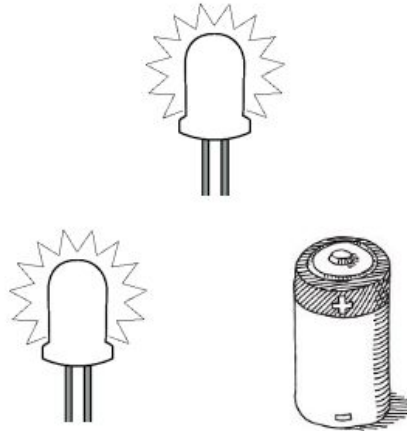
How does the brightness change when you use two lights instead of one?

Prediction	Observation

When there are two lights, the current is (circle one) *higher / lower* than when there is only one light. (circle one) *More / Less* energy is changed from electrical energy into light energy in each of the lights.

Series and Parallel circuits: Make both of the circuits shown in the picture. Circle the one which lights up brighter.
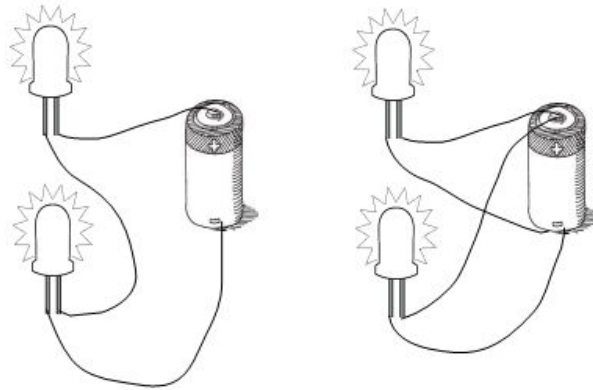
Why does the circuit you circled have brighter light? Circle the correct reason:

The current is larger.   The battery is stronger.   The circuit is longer.

Mission completed stamp!