

1. Obtain one battery, one light bulb, and one wire. Connect these in as many ways as you can. Sketch each arrangement below using the symbols on the board. On the left side of the page, list at least 2 arrangements in which the bulb lights. On the right side, list at least 2 arrangements in which the bulb does not light. Obtain your instructor's initials when you have completed this task. \_\_\_\_\_

Arrangements that light the bulb


Arrangements that do not light the bulb


2. Write 4 questions that you would like to investigate using the materials at your table.

a.

b.

c.

d.

3. Choose two questions to investigate. Carry out your investigation and make notes/pictures in the space below.

4. Examine a flashlight.

- a. Make a sketch of the flashlight showing the circuit that exists when the bulb is lit.

- b. How many wires are used to make this circuit?

- c. Light your flashlight using one battery and one wire.