

Series and Parallel Circuit Lab

Name: _____ Date: _____ PD: _____

Purpose: -

To learn more about series and parallel circuits -

To understand the functionality of parallel and series circuits

Materials- 3 black 3 red Connecting wires - Power Supply- 3 light bulbs -3 light bulb holders - 1 Switch

Experiment 1: Series Circuit 1. Set up a Series Circuit using the, connecting wires, switch, light bulbs and power supply 2. Draw your circuit in the space below. Draw the diagram of the circuit in the space provided:

*** Place power supply on 4.5 volts***

Test light bulbs to make sure all work

Drawing of the Circuit	Diagram of the Circuit

3. Flip the switch. - What happened to the lights? _____.

- Does this mean the circuit is open or closed? _____.

4. Flip the switch so that the lights are on.

5. Unscrew one of the lights on the circuit.

- What happens to the rest of the lights? _____.

- Why? _____.

- Does this mean the circuit is open or closed? _____.

6. How can we make the lights brighter? _____.

- Test your hypothesis.

- What happened to the lights? _____.

7. Remove one light bulb at a time from the series circuit then close the switch

- What happened to the lights? _____.

-Predict the reason for the effect that happened to the bulbs _____.
