Name_____ Date_____

Investigation: Series vs. Parallel Circuits Worksheet

1. The circuit on the left is a parallel circuit and the circuit on the right is a series circuit. Describe their similarities and differences in appearance.

2. Predict: If one flashlight bulb burns out in each circuit, what do you think will happen to the electrical current throughout the rest of the circuit?

3. When a flashlight bulb burns out it does not allow current to flow through it. Remove one flashlight bulb from each circuit and replace it with a burned-out flashlight bulb. Take a photo of your results.

4. What happened to the electrical current in the parallel circuit when the burned-out flashlight bulb was added? Was the other flashlight bulb affected?

5. What happened to the electrical current in the series circuit when the burned-out flashlight bulb was added? Was the other flashlight bulb affected?

6. What are some advantages of each type of circuit?