

# Circuits

Day 2

## **Opening Activity:**

Using the materials provided create a trading card about St. Elmo Brady.

## **Part 1: Follow-up from Day 1**

1. Using your foil, wire, and battery, make the light bulb light up.
2. Draw two arrangements which worked and two which didn't work. Use lines to represent the pieces of foil and wire.

Worked	Didn't work

Once you are done with this step. Your team should get it signed off by one of the program staff members. Ask them to sign here x \_\_\_\_\_

3. What is an open-circuit? What is a closed circuit? Draw a picture below.

## **Part II: Conductivity Measuring Device**

Materials: battery holder, batteries, light, and various test materials

### **Directions**

1. Take a look at your battery pack. Notice it has two “leads.” One red and one black. Insert batteries into the battery pack.
2. Choose one light and connect one end of the light to the black or the red lead. This is your conductivity testing device.
3. In order to test to see if a material conducts electricity you will touch the object with the unused lead of the light and the unused lead of the battery pack. Keep track of if the material causes the light to light up or not in the chart below. You should test 2 items from each station.

<b>Item Description</b>	<b>Does the Christmas light ignite?</b>

