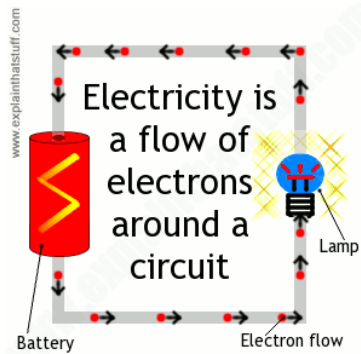


# A “Living” Circuit



Grade 5  
Core Concept/Science/Dance

**Objective:** Students will be assigned in groups to perform the different parts of a working electrical circuit.

## **Grade 5 Core Curriculum Science:**

**Standard 4:** Students will understand features of static and current electricity.

**Objective 2:** Analyze the behavior of current electricity.

## **Grade 5 Core Curriculum Dance:**

**Standard 2:** The student will identify and demonstrate movement elements in performing dance.

**Objective 1:** Expand dance vocabulary with movement experiences in space.

**Time:** 45 minutes

## **Equipment and Materials needed:**

Large area for students to move around in. (Gym)

## **Introduction:**

1. Assign students, in groups, the different parts of a working electrical circuit: load (light bulb, toaster, etc.), pathway (wires), power source (battery, generator, etc.), and a switch. Several students also need to be the electrons moving through the circuit.

2. Each group of students rehearses and then performs their circuit at work. They should be able to show how the electrons move through the circuit when everything is connected correctly. They should also be able to show what happens (and why it happens) when the switch is turned off or a part of the circuit is not connected correctly.

3. To vary this simulation, have students add “insulators” and “conductors” to their circuit and explain why the circuit continues to work or no longer works.