



# Dancing Circuits

## Electricity

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Grade 5th

Science/Dance

### Objective:

. In a 45 minute class 5<sup>th</sup> grade students will explore electricity by building a dancing circuit exploring axial and locomotor steps.

### 5<sup>th</sup> Grade

#### Science

**STANDARD IV:** Students will understand features of static and current electricity

#### Objective 2:

Analyze the behavior of current electricity

**b.** Predict the effect of changing one or more of the components (e.g., battery, load, wires) in an electric circuit.

#### Dance

**Standard 1:** The student will identify and demonstrate knowledge of the body and movement skills in performing dance.

#### Objective 2

Identify and execute axial and locomotor steps.

- Explore axial movements of reaching, stretching, bending, twisting, turning, and balancing.

- Review and demonstrate basic locomotor steps: walk, run, hop, jump, leap, skip, slide, and gallop.

### Materials:

Two scarves for each student.

Noodles

5 White scarves

2 small noodles

### Music:

Tutti-Frutti (Rock and Roll Guitar) by Little Richard

### Warm up/ Introduction:

Talk about atoms. Neutrons and proton stay in place. Electrons move around the nucleus.

### Explore:

Explore axial movement: (stays in place) Stretching, Sinking, Pushing, Bouncing, Twisting, Bending, Slashing, and Kicking. Protons move with axial movements.

Explore locomotor movement: (moves around space) Walk, Run, Leap, Jump, Hop, Gallop, Skip, and Slide. Electrons move around with locomotor steps.

Organize the class in four groups. Each group has one proton (pink scarf), two neutrons (orange) and many electrons. Make sure each student has 2 scarves.

**Create:**

**Build a circuit:**

**Conductors:** Noodles. "Closed circuit and broken circuit."

**Load:** White Scarves. Move in axial movement when the electricity runs through the conductors.

**Source:** Battery small noodle. "Battery connected, battery disconnected."

**Switch:** Small noodle. "Open circuit, closed circuit."

**Electrons:** Yellow scarves. Electrons travel around the conductor when the circuit is closed.

Talk about what happens when the circuit is broken or closed.

**Perform:**

Divide the class in half. Half watches, half dances.

**Connect:**

Talk about what are some conductors and insulators. What are some activities that do not require electricity?