

Electrical Safety: Be Safe to a Fault!

Overview

Task Context

Students will realize that electrical hazards may result in fire, injury, death, and/or loss of property.

Description

Students will identify common electrical hazards found in the home and recommend safe solutions.

Expectations

Grade 2	Grade 3
<p>2e47 • communicate messages, and follow instructions and directions;</p> <p>2e60 • participate in group discussions, demonstrating a sense of when to speak, when to listen, and how much to say;</p> <p>2p3 • outline safety rules and safe practices;</p> <p>2p11 • identify safety rules to be followed in the home, school, and community (e.g., electrical safety, schoolyard rules, bus safety);</p>	<p>3e50 • communicate messages, and follow and give directions for a variety of activities and events;</p> <p>3e51 • listen to discussions and ask questions to clarify meaning;</p> <p>3e63 • contribute ideas appropriate to the topic in group discussion and listen to the ideas of others;</p> <p>3p3 • list safety procedures and practices in the home, school, and community</p> <p>3p10 • explain relevant safety procedures (e.g., fire drills, railway-crossing and crosswalk procedures);</p>

Groupings

Students Working As Whole Class

Students Working Individually

Notes to Teacher

The following materials will be needed:

- 4 extension cords

- curling iron, electric iron, toaster, tea kettle, a small appliance with a frayed cord
- copies of the Safe/Unsafe Worksheet

Teaching / Learning

1. Teachers set up six stations around the room.

Sample stations:

- an extension cord with 2 extension cords plugged into it
- a curling iron or hair dryer near a sink
- an iron with a knot in the cord
- an appliance with a frayed cord
- a toaster plugged into an extension cord
- a tea kettle with the cord hanging over the edge of the counter

2. Teachers and students discuss each station.

- What is the hazard? (too many plugs in one outlet, electricity use in or near water is dangerous, take the knots out of cords so electricity can flow freely, repair worn or frayed cords, plus a toaster into an outlet not into an extension cord, keep cords rolled up on top of the counter so young children cannot grab them)
- How can it be corrected?

3. Teachers give students a copy of the Safe/Unsafe Worksheet.

4. Students choose one station and illustrate both the safe and unsafe situations.

5. Illustrations may be displayed on a bulletin board along with safety rules.

Electrical Safety

Safe	Unsafe