

Electricity safety slideshow notes

As part of Physical and Health Education, students are expected to identify and describe potentially hazardous situations and know how to avoid them. Electricity is all around us, from the appliances we use in our everyday lives to the equipment seen out in the street delivering our electricity. These can present a safety hazard if students come into contact with them.

The Electricity Safety Slideshow introduces students to real-life images of electrical equipment seen in the home and community paired with images of objects that could bring a person into contact with electricity (e.g. a ball going into a substation).

Present the images one at a time and have students describe what they see in the pictures before talking about and introducing the safety rule. The first slide for each image shows just the photo and the second slide presents the safety rule. Suggested questions and information to encourage discussion are included with each of the following slide descriptors.

Slide 1: Title slide

Slides 2 and 3: Electricity outlet on a wall

- Ask students if they recognize the image.
 - Where have you seen one of these before?
 - Do we have these in our classroom?
 - What is it? What is it used for?
 - This is an outlet. We plug things that need electricity into outlets. Outlets can be dangerous.
- Click to slide 3 to introduce the safety rule. Have students help read the text.
 - Never put fingers or objects into outlets.

Slides 4 and 5: A bathroom with a hairdryer

- Have students describe what they see.
 - What is a hairdryer used for?
 - How does it work?
 - What does it need to work?
 - Electricity and water don't mix because it's dangerous.
- Click to slide 5 to introduce the safety rule. Have students help read the text.
 - Keep electronics away from water.



Slides 6 and 7: FortisBC electricity safety hazard sign

- Have students describe what they see.
 - Did we see one of these signs on our scavenger hunt?
- Read the text together.
 - What does hazard mean?
 - What do the numbers at the bottom of the sign mean?
 - What is FortisBC?
- Some things we see out in the street bring electricity to our homes and schools. These have safety signs on them to warn us to stay away. Electricity can be dangerous so we should stay away from things with warning signs.
- Click to slide 7 to introduce the safety rule. Have students help read the text.
 - Obey warning signs around electricity.

Slides 8 and 9: Electrical box on the street

- Ask students if they have seen one of these on the street (they may have during the scavenger hunt activity)
 - What do you think is inside the box?
 - The box is locked. Why do you think it is locked?
 - Inside the box is electrical equipment that could include transformers, junction boxes and electrical switches. This box is connected to underground power lines.
- Click to slide 9 to introduce the safety rule. Have students help read the text.
 - Keep away from electrical boxes.

Slides 10 and 11: Power lines

- Have students describe what they see. If they saw power lines on the scavenger hunt, have them recall what they saw. Ask them if these look the same as the ones they saw?
 - Did we see these on our scavenger hunt?
 - What do you think they are?
 - These are power lines. They deliver electricity to our homes and school.
- Click to slide 11 of the image of a kite near a power line.
- Have students describe what they see.
 - Who has played with a kite?
 - Where is the best place to fly kites?
 - Would it be a good idea to fly a kite close to a power line? Why not?
- Have students help read the text.
 - Never fly a kite near a power line.



Slides 12 and 13: Power lines and trees

- Focus on the image of the tree first.
 - Share something you know about trees.
 - Some people like to sit under trees for shade, hang a swing from a tree or climb them. Before you play near trees, look up to see if there are any power lines.
- Click to slide 13 to introduce the safety rule. Have students help read the text.
 - Stay out of trees near power lines.

Slides 14 and 15: Substation and Frisbee

- Allow time for students to share their stories about Frisbees.
 - Who has played with a Frisbee?
 - What do you have to do to make a Frisbee fly?
- Click to slide 15. Ask students to describe what they see (if you have a substation close to your school community, refer to its location).
 - This is a substation. Electricity passes through here on its way to our homes, school and other buildings in the community.
- Introduce the safety rule. Have students help read the text.
 - Never go after a ball or Frisbee that has gone into a substation.

Slides 16 and 17: Downed power lines

- Have students describe what they see.
 - Why do you think the power lines came down?
 - Power lines are usually up in the air, held there by the power poles. This is for our safety. Remember, we need to stay away from electricity.
 - What should you do if you see a power line on the street?
- Click to slide 17 to introduce the safety rule. Have students help read the text.
 - Never go near a downed power line.

