

Starting Activity

Grades K-3

SMART
ENERGY
HUB



ComEd
An Exelon Company

powering lives

The Smart Energy Hub

We are delighted to welcome you to the ComEd Smart Energy Hub online program! The following activities are suggestions to provide background knowledge and prepare your students for their online learning journey.

First Activate Knowledge

Ask your students to think about the last time they saw a bolt of lightning during a thunderstorm. How did they feel during the storm? Encourage everyone to share their thoughts.

Explain that a lightning bolt is a huge surge of electricity between the sky and the ground. Electricity is a form of energy, and it is very powerful. Then demonstrate the power of static electricity to make objects move.

TRY IT!



Static Electricity Demonstration

Materials:

O-shaped dry cereal (Cheerios)
Balloon
Thread
Tape

Procedure:

Tie a piece of dry cereal to the end of a long piece of thread. Tape the other end of the thread to the table. Next take the inflated balloon and either rub it over your hair or on a piece of wool. Bring the balloon close to the cereal and watch as the cereal moves towards the balloon.

Discuss that electricity is used to run the refrigerator or power the computer in our homes. Ask your students to name some other items in your home that use electricity. Then allow your students time to complete the **Using Electricity** activity sheet.

Tell your students that they are going to see videos of the ComEd Chicago Training Center where the men and women who help to bring us electricity train to do their job safely. Discuss that electricity is very powerful, like a lightning bolt, and if it is not handled carefully it could hurt the person working with it. Therefore, overhead electricians go to school to learn how to work with electricity just like the students go to school to learn to read and write.

Starting Activity

Grades K-3



Introduce vocabulary that students will hear while watching the videos by discussing each word below.

Energy is the ability to do work. You use energy when you play, use a computer, or cook food.

Electricity is a form of energy used to power things like televisions, light bulbs, and computers.

A **meter** measures the amount of electricity we use and when the electricity was used.

Power lines are wires that carry electricity from the power plant to homes and businesses. They can be in the ground or held up over our heads by poles.

An **overhead electrician** is someone who sets up or fixes power lines.

Name _____

Date _____



Using Electricity

- Draw a picture showing one or two ways you use electricity.
- Then, write how you could use less electricity.

How I use electricity:

How I can use less electricity:
