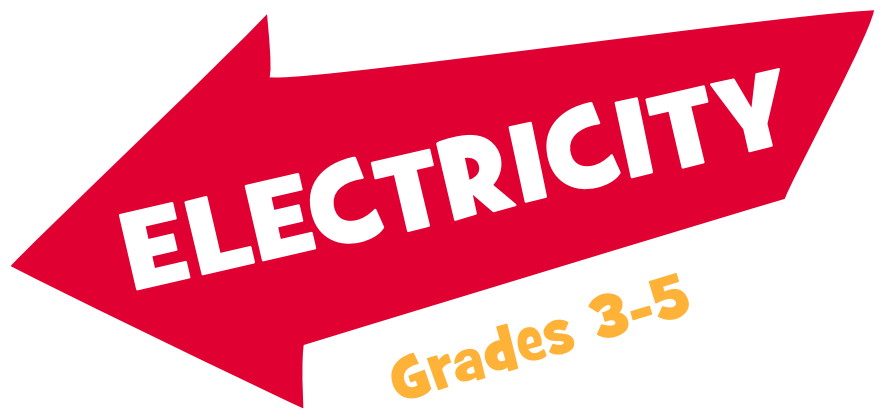


Keep this sheet.
Collect them all!



Explore your world with this Science-to-Go backpack



Books in this backpack

- **Electric Animals**
by Natalie Lunis
- **Electrical Wizard: How Nikola Tesla
Lit Up the World**
by Elizabeth Rusch
- **Explore Electricity! With 25 Great Projects**
by Carmella Van Vleet
- **How Does a Waterfall Become Electricity?**
by Robert Snedden
- **Making a Circuit**
by Chris Oxlade

Idea!

Pause a moment while reading, and look around the room. What are you using electricity for right now?

More books
at your
library

Electricity. Chris Oxlade. J621.3192
Electricity for the Future. Eileen Byrne. J333.7932
Experiments with Electricity. Susan Heinrichs Gray. J537.078
Exploring Electricity. Claire Llewellyn. E537
My Light. Molly Bang. E621.47

Local Connection

Tacoma Power, which delivers electricity to western Pierce County, gets much of its electricity from hydropower. The utility operates campgrounds and dam tours at many sites, including **Alder Lake** in Eatonville. Find more information at mytpu.org/tacomapower.



ACTIVITY

Static Roller

You're welcome to keep this sheet!

Even in the middle of the woods, without electrical devices, all of us experience electricity every day. Electric signals ricochet through your body's nervous system. Lightning strikes during a large storm. And, particularly in winter, you'll likely notice an occasional shock when you touch a doorknob. This last example is static electricity. In this exploration, you'll see what static electricity can do!

What you need:

- Empty soda can
- Blown-up balloon

Try this:

1. Place the can on its side on a table or any smooth flat surface. Wait until it stops wobbling.
2. Rub the balloon back and forth on your hair, fast.
3. Hold the balloon about an inch or two in front of the can. What happens?
4. Move the balloon away from the can very slowly. The can will follow you!
5. Try moving the balloon in the opposite direction. Do you need to rub the balloon on your head again?
6. You've probably discovered that static electricity is a force that can move objects! Can you think of other ways to move the soda can without touching it?

Adapted from the Exploratorium's "Remote Control Roller" activity.
Visit exploratorium.edu

Going Further

Try using static to move other things. Can you use your trusty balloon to bend a thin stream of water? Can you move your hair away from your head? If you have friends nearby, try having a static roller race!