

hat is electricity?

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Electricity is an energy that can be found everywhere, which means we have to stay safe around it.

Electricity powers items like lights, your fridge, and television.

Electricity is transported to our homes and schools through **power lines**. It can also be stored in **batteries**.

What is the most common way you can tell something uses electricity?

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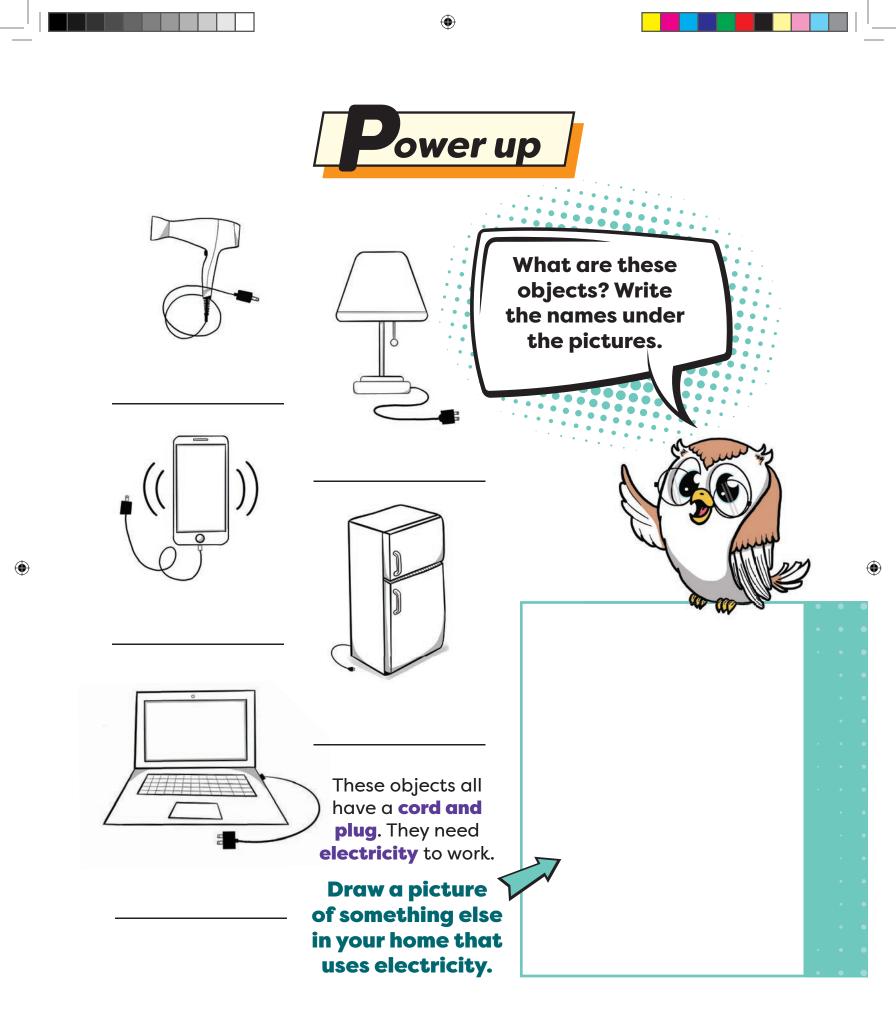
Write your answer here

Always ask an adult for help to plug or unplug devices, so you do not get an electric shock.

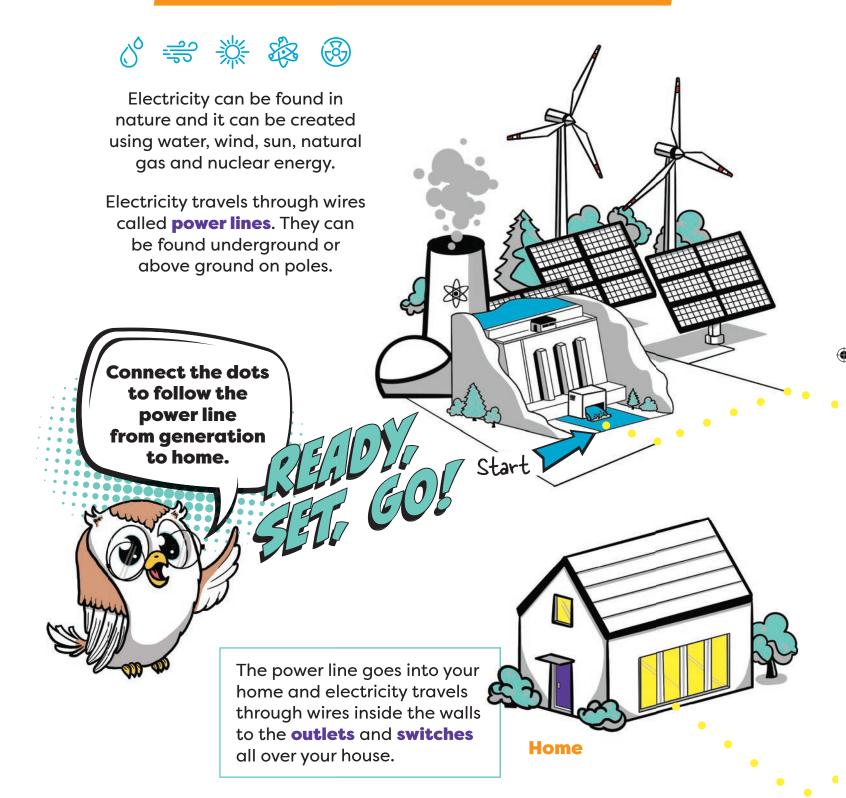
Switches power lights

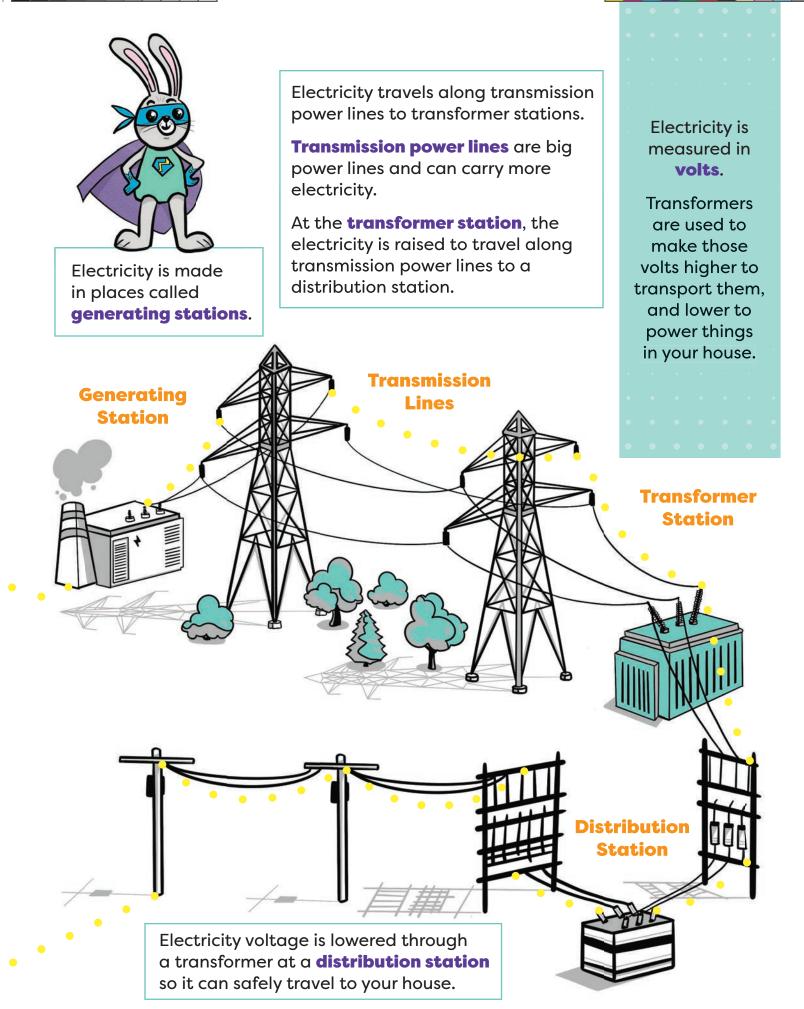
and appliances using electricity that travels through wires behind

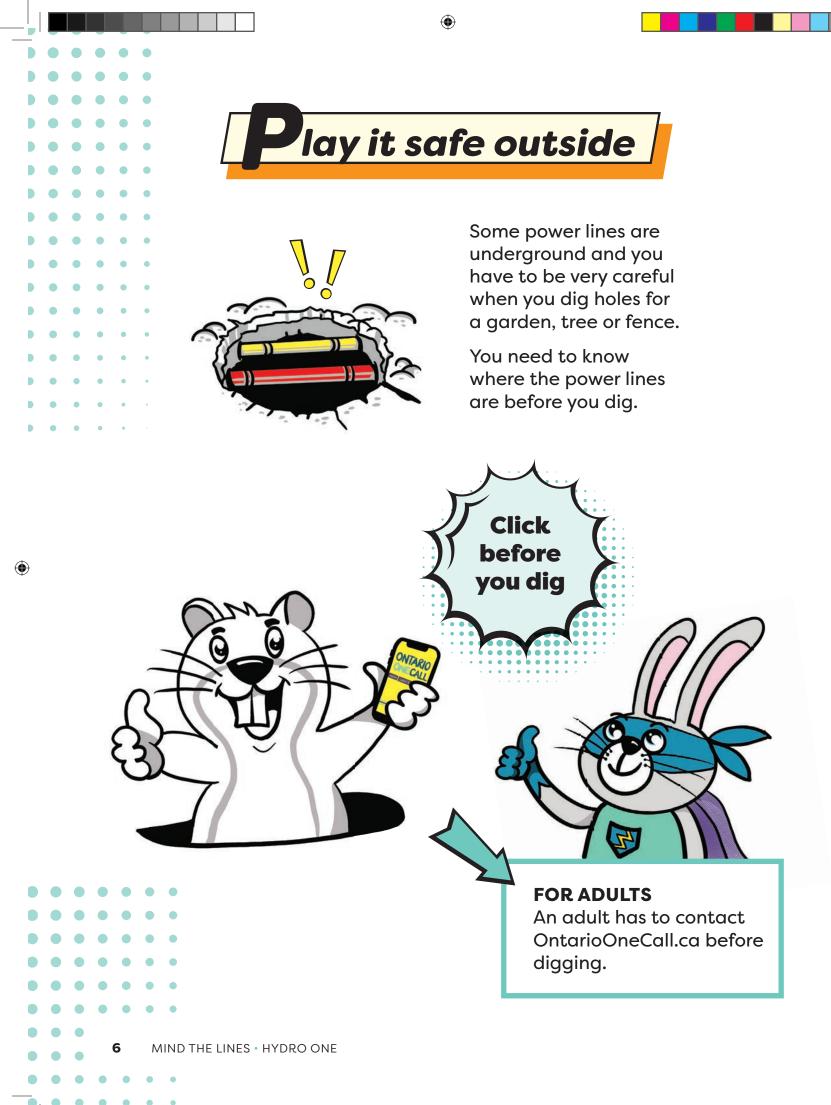
the wall.



Where does electricity come from?







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Stay 10 metres away from broken or fallen power lines – 10 metres is about 10 big dogs long.

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10 m

Sometimes when there is a big storm or accident, power lines fall down. When this happens, the ground around the lines might be electrified and that is dangerous. Stay 10 m away from downed power lines

> **Step potential** is the ability electricity has to move through your body as you step away from the source. As electrical current flows through the ground, the voltage decreases in rings as you move away.

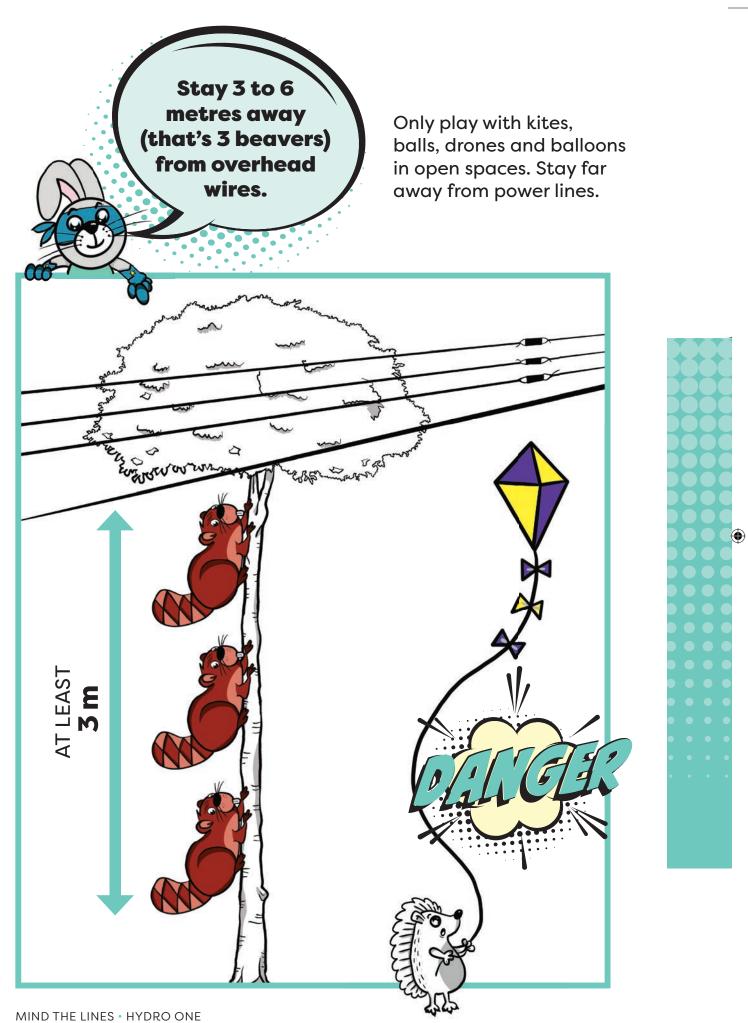
Keep your legs together and shuffle your feet to keep the electricity in the ground. 10 metres is the safe distance.



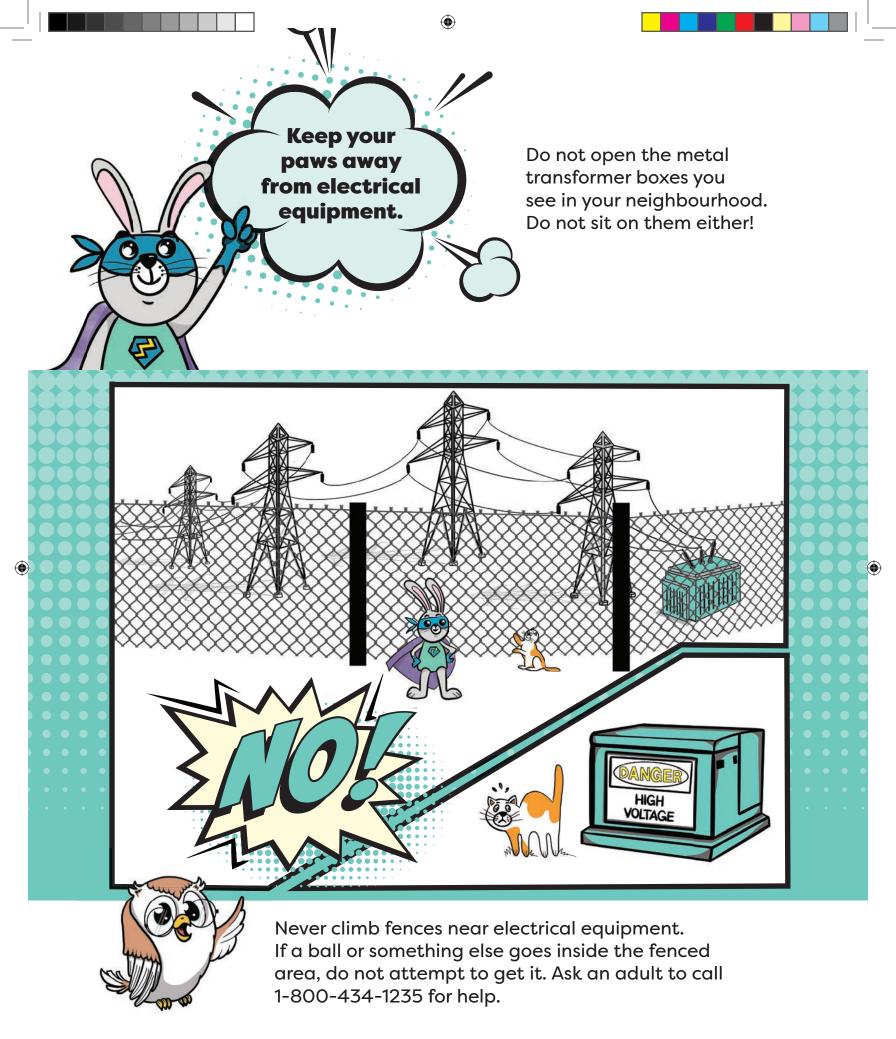
FOR ADULTS

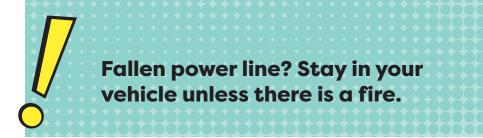
A broken or fallen power line is an emergency. Call 911.

MIND THE LINES • HYDRO ONE 7



MIND THE LINES • HYDRO ONE



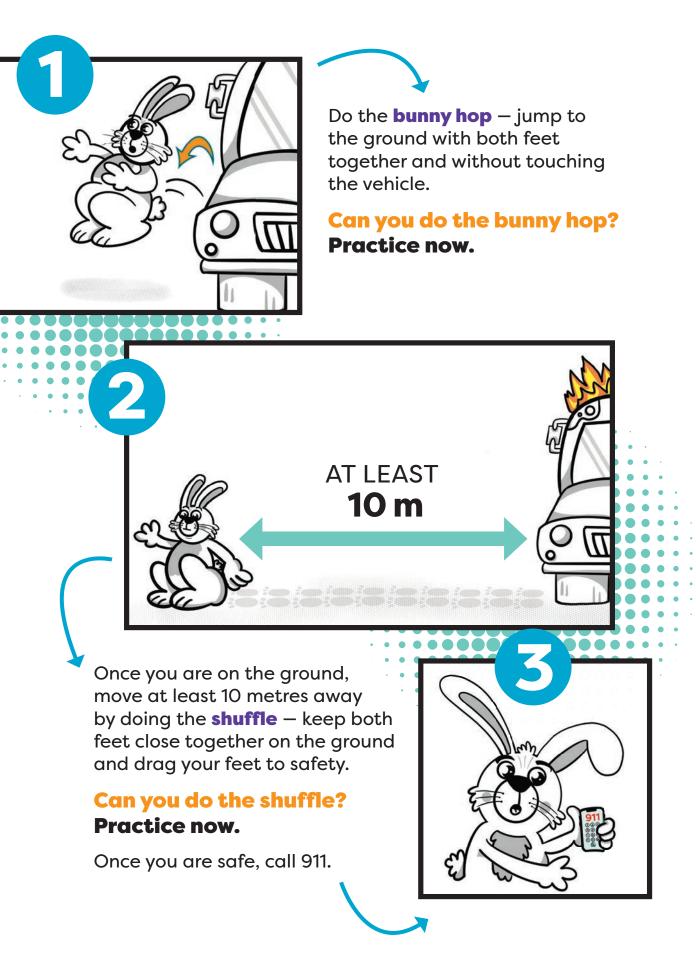


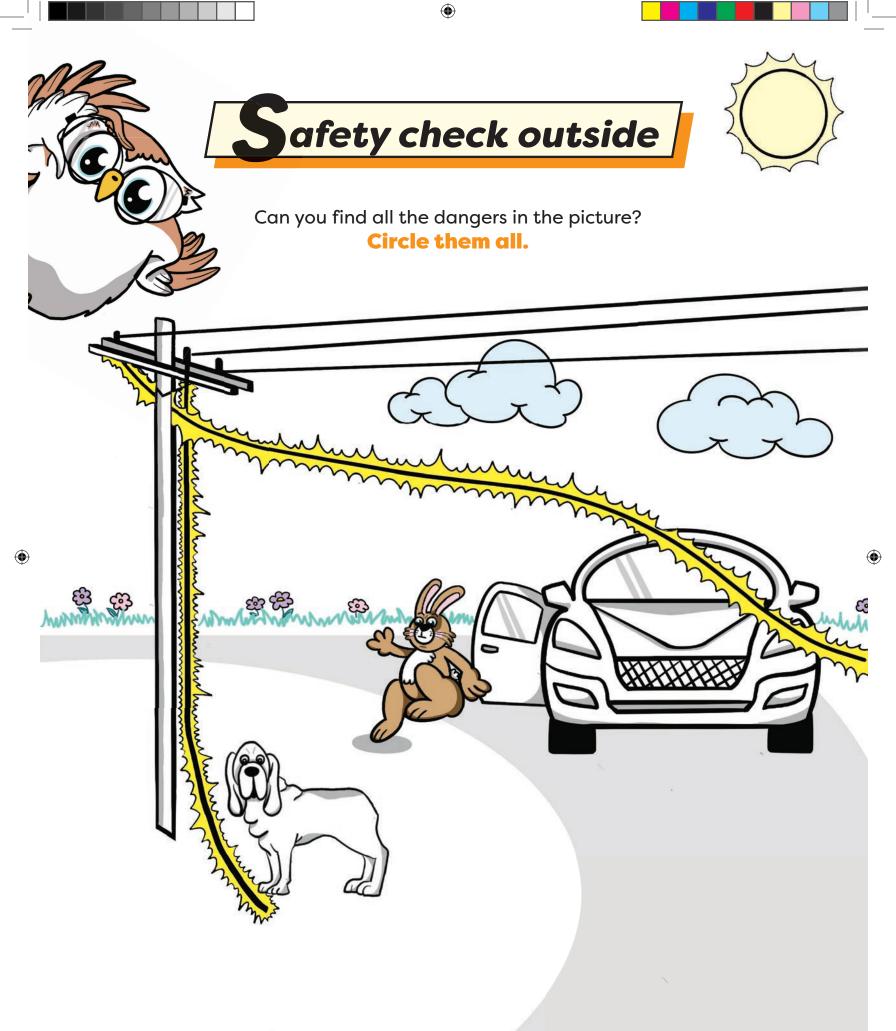
If a power line falls on top of your car or school bus, stay inside the vehicle and call 911 for help.

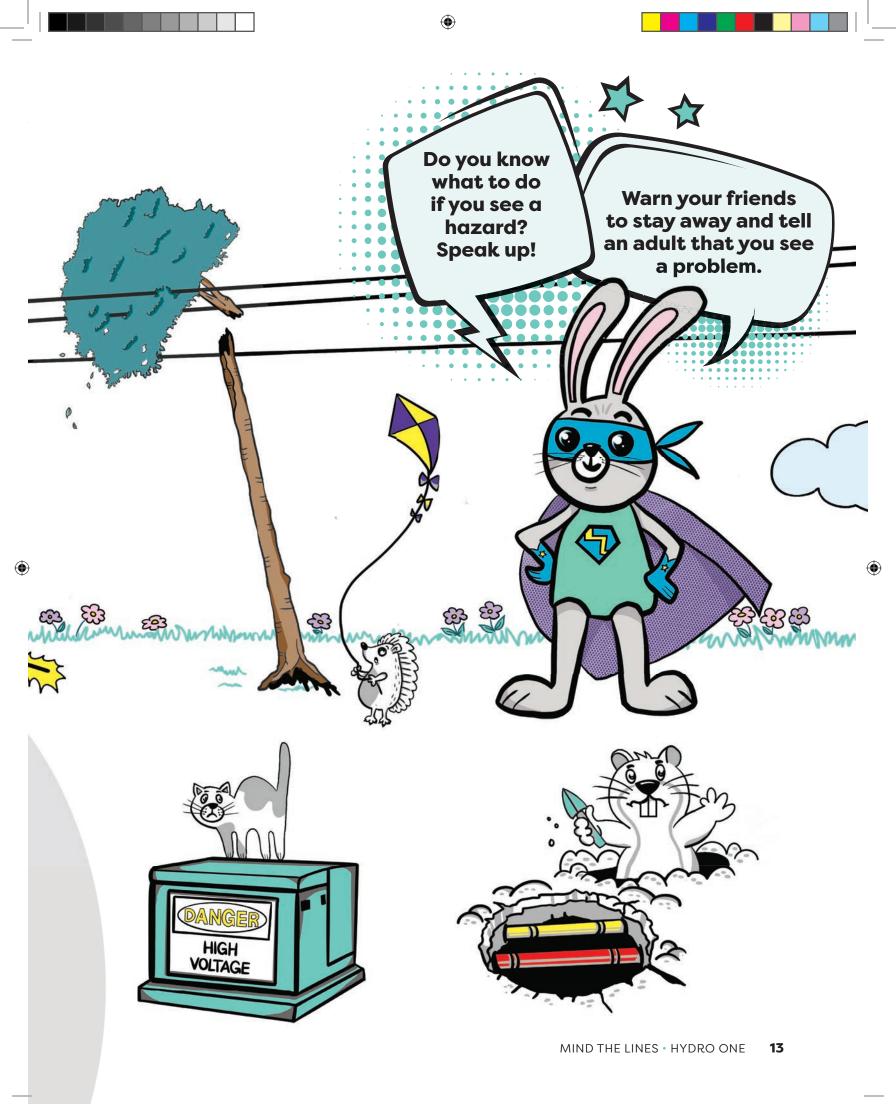
If a fire starts, you must leave the vehicle quickly and safely. Do not touch the vehicle and the ground at the same time.



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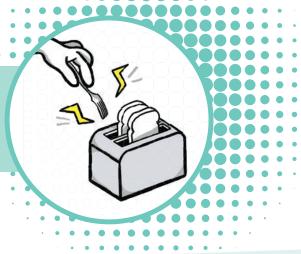






Never put anything metal in the toaster.

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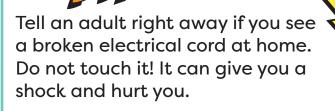
Never leave electrical cords out where you can trip over them or where pets can chew them.

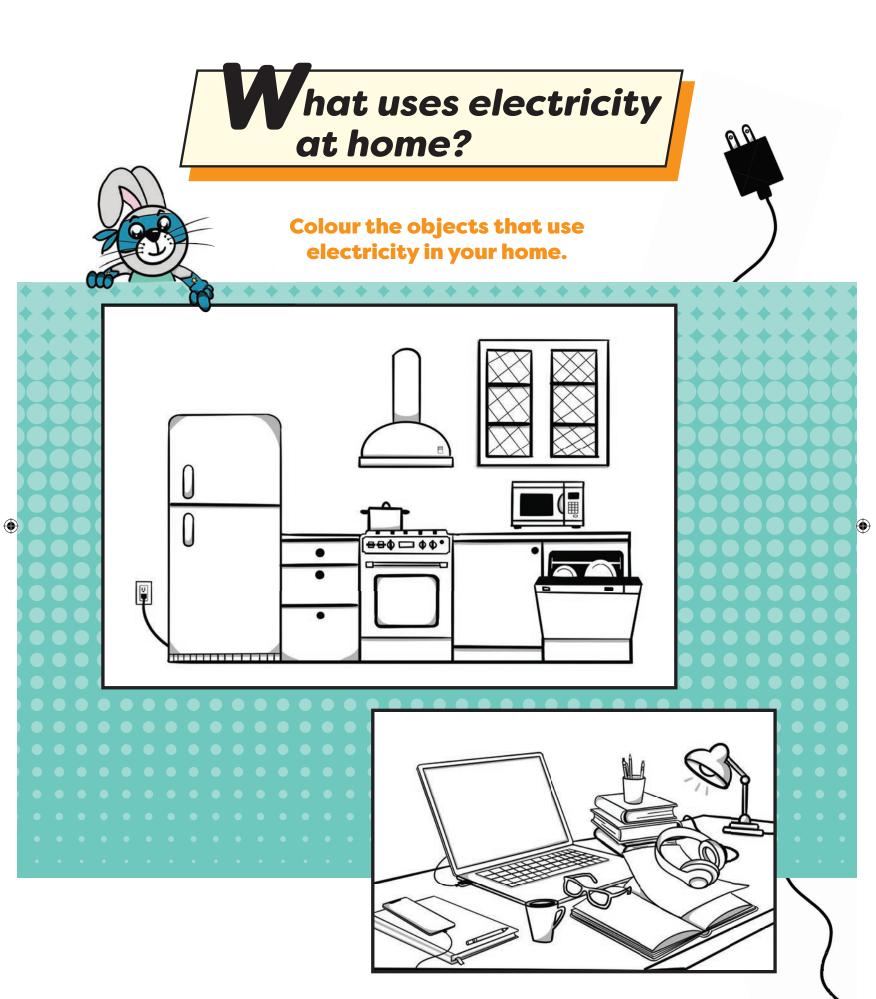
You should always ask an adult for help with anything electrical. Do you know why?

Write your answer here



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Try these activities to find out what you have learned. Find the words and circle them.

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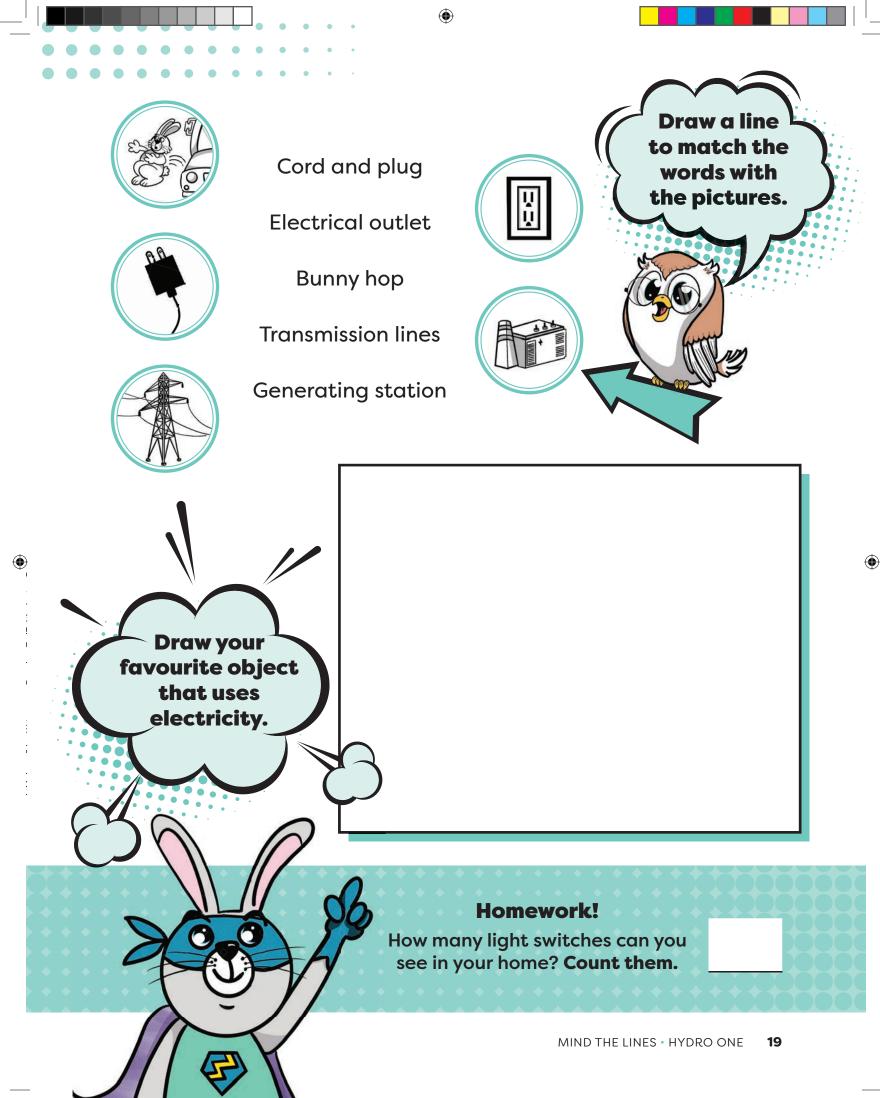
BATTERIES	BUNNY	CHARGE
CORD	DANGEROUS	DISTRIBUTE
ELECTRICITY	ENERGY	GENERATE
HOP	OUTLET	PLUG
POWER	SAFETY	SHUFFLE
SWITCH	TRANSFORM	VOLTS

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Safety at work

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Hydro One workers stay safe at work by wearing special **safety gear**.

Do you know what these things are and why we wear them to stay safe?

Talk about them in your class and with your friends and family.





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Electricity is an energy that can be found everywhere. Electricity powers items like lights, your fridge, and television.

Power lines transport electricity to our home and schools. They can be underground or above ground.

A **cord and plug** can make objects work that need electricity when connected to an electrical outlet.

Electrical outlets connect electrical lines to wires to give power to your home.

Switches connect to wires inside walls to power lights and appliances.

A **generating station** is where electricity is made.

Transmission power lines are big power lines and can carry more electricity.

A **transformer station** raises electricity to transport it to a distribution station.

A **distribution station** lowers the voltage of electricity so that it can safetly travel to your house and school. **Volts** is how electricity is measured.

Step potential is the ability electricity has to move through your body as you step away from the source.

Bunny hop is jumping from a vehicle to the ground with both feet together and without touching the vehicle.

Shuffle is keeping both feet close together on the ground and dragging your feet to safety until you are at least 10 metres away.

Safety gear is clothing and objects that safety workers wear to stay safe at work.



Draw something dangerous that you should stay away from:

Draw your favourite animal being safe with electricity:

Page 2

• It has a cord and a plug. There is a switch or outlet on the wall. It has wires.

Page 3

 Refrigerator Cell phone

All the

answers

- Hair dryer
- Computer
- Lamp

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Pages 12 and 13

- 1) The rabbit must stay in the vehicle and call 911. Look at page 10.
- 2) If the rabbit must leave the vehicle, the rabbit must NOT touch the vehicle and ground at the same time. Look at page 11.
- 3) The dog is TOO CLOSE to the broken power line. Look at page 7.
- 4) The porcupine must NOT fly a kite so close to power lines. Look at page 8.
- 5) The cat must NOT be on the metal transformer box. Look at page 9.
- 6) The gopher must NOT dig without knowing where the power lines are. Look at page 6.

Page 15

 Electricity is dangerous and can hurt you if you do not follow the rules.

Pages 16 and 17

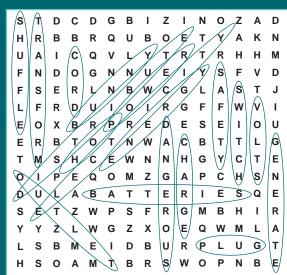
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- Kitchen: refrigerator, stove, fan, microwave, dishwasher, outlet (on the wall)
- Office: computer, cell phone, lamp, headphones

- Bathroom: hairdryer
- Living room: outlet (on the wall), vacuum, fan, lamps (2), TV, switch (on the wall), stereo
- Total: 19

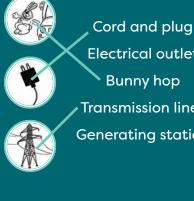
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Electrical outlet Bunny hop Transmission lines

Generating station

For more electrical safety resources, visit HydroOneRemotes.ca



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