



The National
Theatre for Children

This booklet belongs to:

THE SAFETY CIRCUS

Play it
safe around
electricity!

Take this booklet home!

Share the activities inside
with your family to help
them stay safe around
electricity, too.



PPL Electric Utilities

THE SAFETY CIRCUS

THE STORY

Jack “Sully” Sullivan, the owner of Sully’s Safety Circus, has a problem. The mayor is coming to visit! That’s not the problem. The problem is that The City is sending an inspector to see if Sully and her performers are using electricity safely. Sully doesn’t know anything about electrical safety. If The City shuts down her circus, she’ll be ruined. Ruined! Luckily, Sully has some friends who know a thing or two about electricity. Complete these puzzles and activities to help Sully pass the inspection and keep the circus running!

EDUCATIONAL CONCEPTS

- How electricity is made
- The uses of electricity
- How to identify dangerous electrical situations
- Ways to stay safe around electricity

WORDS TO KNOW

Conductor	A material electricity passes easily through, like water or metal
Danger High Voltage Signs	Signs placed on dangerous electrical equipment to warn us to stay away
Electricity	A form of energy that we use to run TVs, computers and many other things
Insulator	A material that electricity does not travel easily through, such as plastic or rubber
Outlet	A place in the wall where electricity comes into the house and we plug in electrical devices
Power Lines	Wires used to send electricity from power plants to our homes, schools and businesses (usually in the air connected to utility poles)
Power Plant	A building where electricity is generated
Substation	A fenced-in area where electricity is prepared for use in our homes
Transformer	A device on a utility pole or on the ground that transforms electricity so it is useful in our homes
Turbine	A giant fan-like device used in making electricity

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Wrench



Ursus Grizzly



Jackie Sullivan



Beetle Bombardier

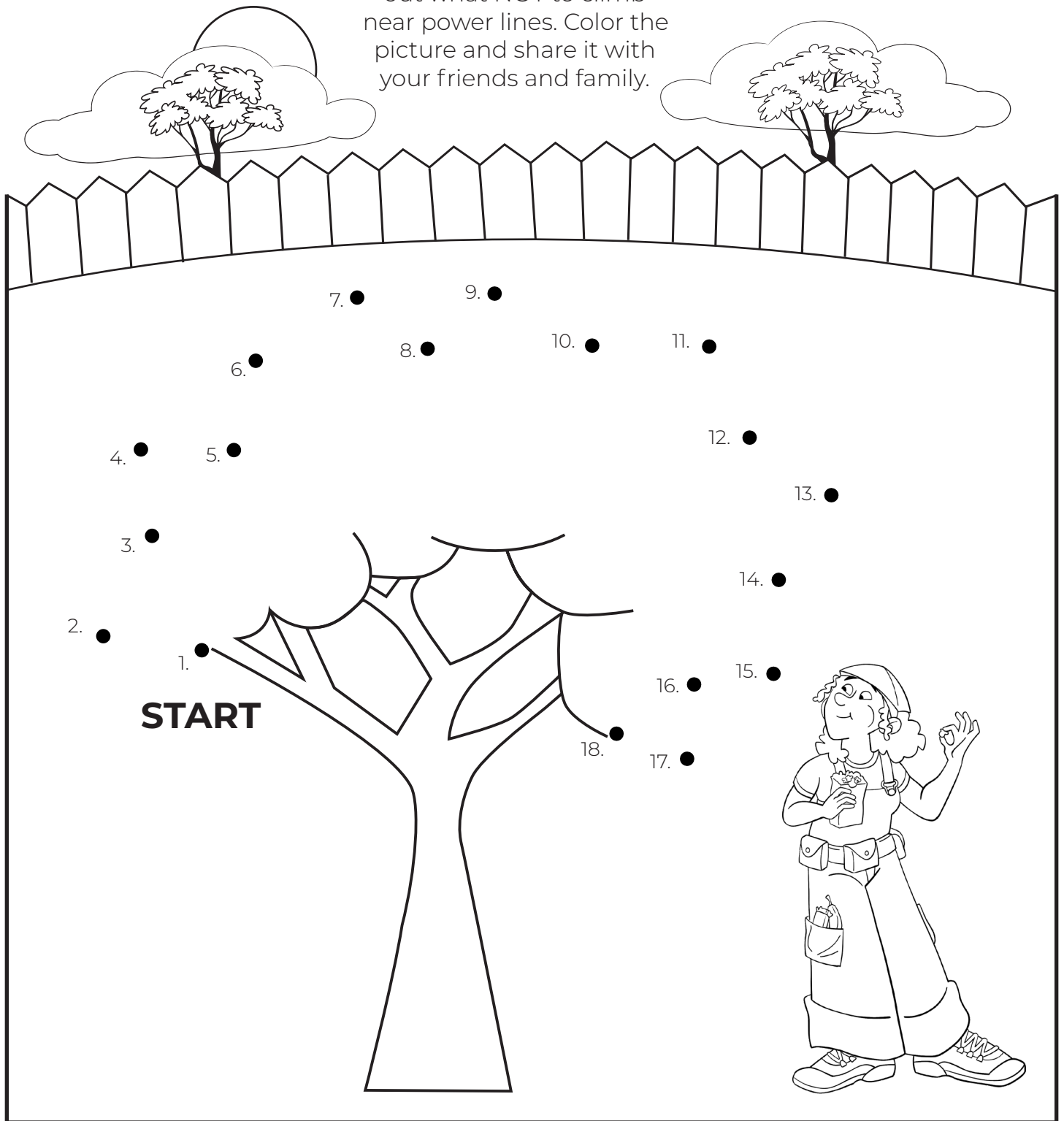


Mr. Cookiepants



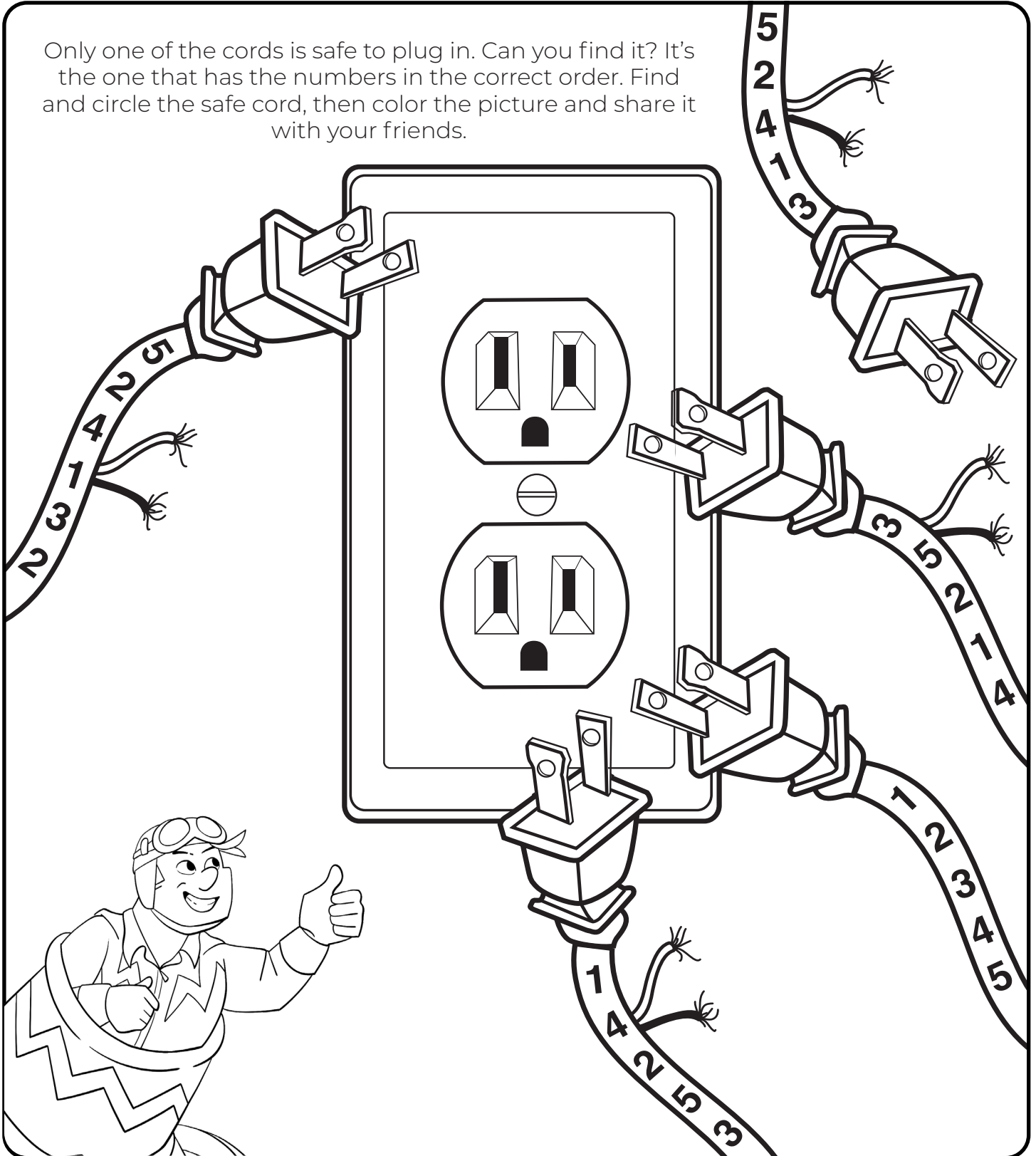
BE SAFE

Connect the dots to find out what NOT to climb near power lines. Color the picture and share it with your friends and family.



Counting Caper

Only one of the cords is safe to plug in. Can you find it? It's the one that has the numbers in the correct order. Find and circle the safe cord, then color the picture and share it with your friends.



All Mixed up

How do you stay safe around electricity?
Unscramble the bricks and write the
words in the correct order to reveal the
hidden message.



AWAY

LINES

POWER

DOWNED

FROM

STAY

STAY

.

SULLY'S

Math Message



You can follow this electrical safety rule when you are in the bathroom or the kitchen. Do the math and fill in the spaces below to discover Sully's safety rule. Read the sentence out loud once you have completed it.

$5 + 3 =$

AND

$12 - 2 =$

WATER

$9 \div 3 =$

NOT

$7 + 4 =$

DO

$6 \times 1 =$

MIX

$8 - 7 =$

ELECTRICITY

10

8

1

11

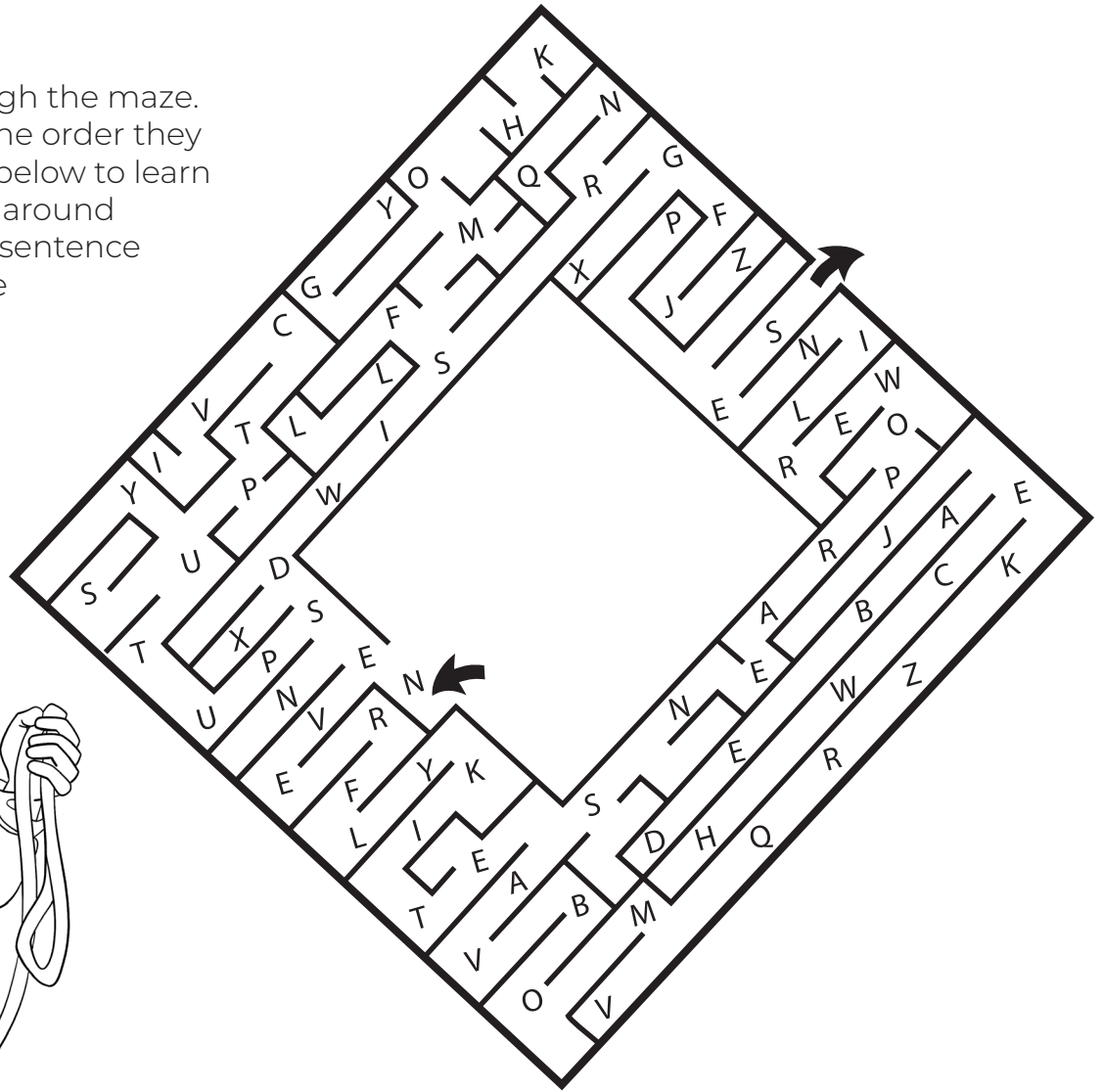
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Safety Maze

Find your way through the maze. Write the letters in the order they appear on the lines below to learn one way to stay safe around electricity. Read the sentence out loud once you've completed it.



_____ ●

JOIN THE Safety Circus

Write two ways you use electricity, and two ways you stay safe around electricity.
Then draw and color a picture of yourself.



Ways to use electricity:

Ways to stay safe around electricity:

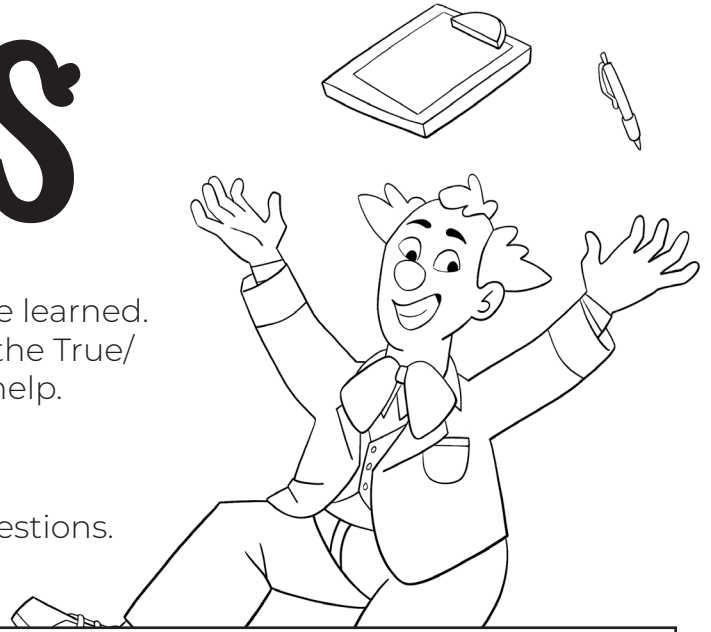
PLAYING IT SAFE

Facts

It's time to show Mr. Cookiepants what you have learned. Read the paragraphs below and then answer the True/False questions. Ask an adult if you need help.

EXTRA CREDIT

Read the article to someone else. Quiz them by asking them the True/False questions.



WHAT FACTS DO YOU KNOW ABOUT ELECTRICITY?

Electricity is a basic form of energy and is one of our most useful sources of power. We need electricity to do things every day. Electricity lights our homes and runs our computers. Without it, we wouldn't be able to listen to music, run our appliances, watch television or even charge our cellphones.

Where does electricity come from? At a power plant, we use natural gas or nuclear power to make electricity. We also use hydroelectric dams, which use the force of moving water to create electricity. Wind turbines and the sun can also be used to generate electricity. The electricity then travels through power lines to a substation, where it is broken down into less powerful amounts to use in our homes. We always have to be careful around electricity, because it can be very dangerous. It can hurt or even kill us if we are not careful. So, remember The Safety Circus' motto:

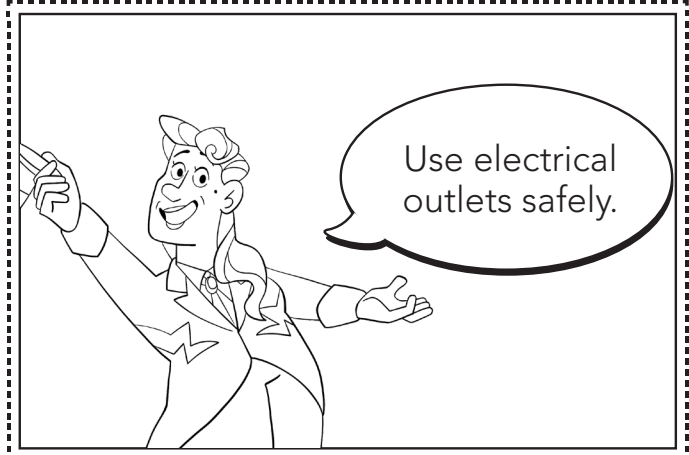
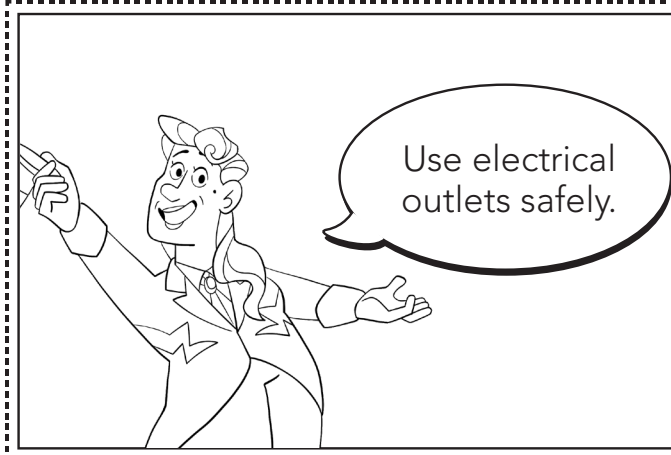
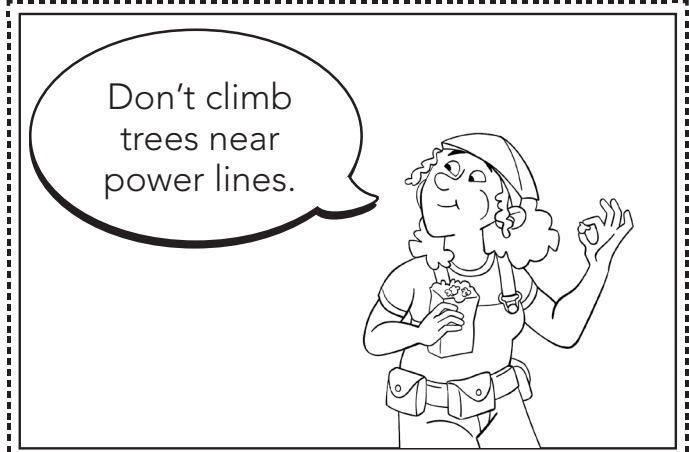
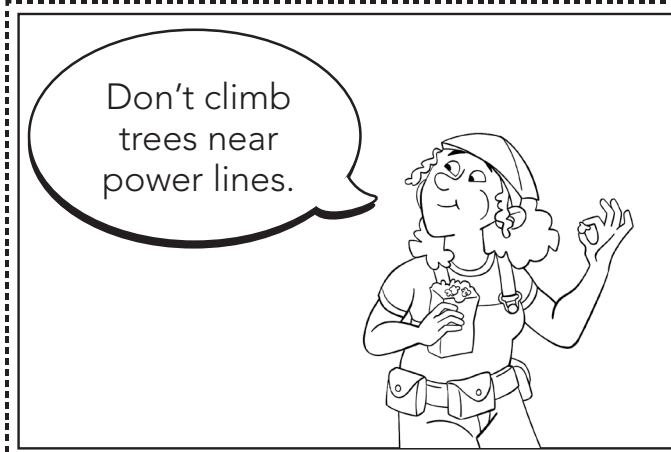
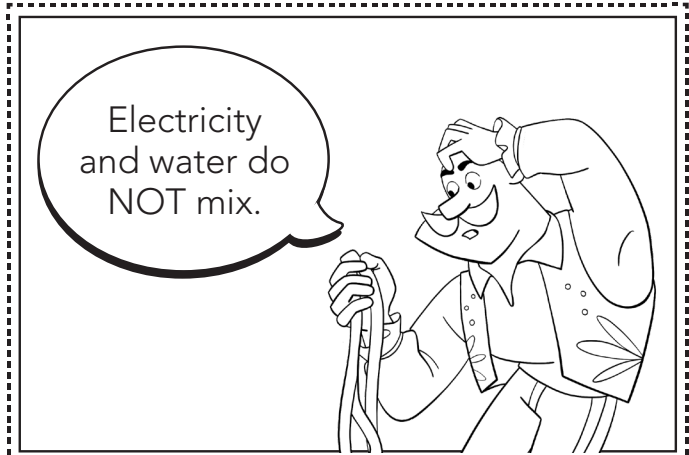
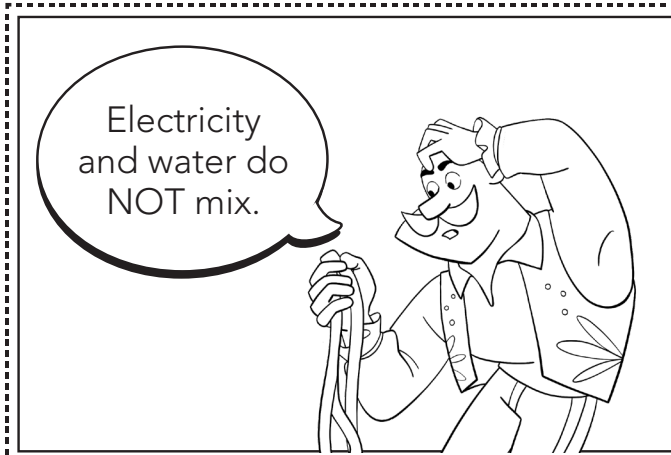
Play It Safe Around Electricity!

- T/F** 1. A power plant is a tulip with super powers.
- T/F** 2. Electricity travels through power lines.
- T/F** 3. We only use electricity once a week.
- T/F** 4. Electricity is produced in power plants.
- T/F** 5. A substation makes delicious sandwiches.
- T/F** 6. Always remember to play it safe around electricity.

THE SAFETY

Match Game

Color and cut out the picture boxes along the dotted lines. With a friend or family member, place the cards upside down and mix them around. Flip two cards at a time until you find matches. The player who finds the most matching sets wins. Ask an adult if you need help.



Thanks for learning about **electrical safety**



At **PPL Electric Utilities**, we always want to be safe, especially around electricity. We also want you to be safe.

Electricity is important. It helps us do important things every day. But, it can be harmful if not respected and handled correctly.

Learning about electrical safety is a good thing. We're glad you're involved.

There are a lot of different ways in which you can be smart when it comes to electrical safety. As you grow, you'll be using more and more things that run on electricity, so it's important to know what to do.

With your new safety knowledge, you can help your family and friends stay safe too!

Learning more about electrical safety is easy. You, your parents and teachers can find lots of great information and activities at www.pplelectric.com/safety. Just click on the Education tab.

SAFETY GLASSES

Protects workers not only from flying debris, but also from an electrical flash. Clear safety glasses are worn at night or in inclement weather or low-light conditions.

HARD HAT

Constructed of hard plastic web and protective, anti-conductive coating.

RUBBER SLEEVES AND GLOVES

Made of 100 percent non-conductive rubber to guard against contacts when working around energized lines or equipment.

HOT STICK

An expandable pole made of fiberglass to allow workers to reach switches and other devices on energized power lines.

SAFETY VEST

Makes workers visible to traffic. Made of fire retardant material to offer protection in the event of an electrical flash.

FULL SAFETY HARNESS

(Not pictured)
Provides fall protection when in a utility truck bucket. Lanyard attaches the harness to the bucket.

CLIMBING DEVICES

(Not pictured)
Attach to legs/feet to allow crews to climb wooden power poles in areas not accessible with a bucket truck.

RUBBER OVERSHOES

Provide a layer of defense around energized lines and equipment.

RUBBER GLOVE PROTECTORS

Protect gloves from damage during work. Even a pinhole in the rubber could pose a risk in the event of an electrical contact.

SHIRT AND PANTS

All made of fire-retardant material to meet safety standards.

SAFETY SHOES

Class 75 safety shoes to provide foot protection on the job.





PPL Electric Utilities

Hey parents, students and teachers!

GO TO: ^{NTC}**playworks.com**



Check out more fun
learning activities
on this topic at
NTCplayworks.com!

Here's How:

1. Go to NTCplayworks.com
2. Select your state and program
3. Enjoy the digital games, interactive activities, e-books and more