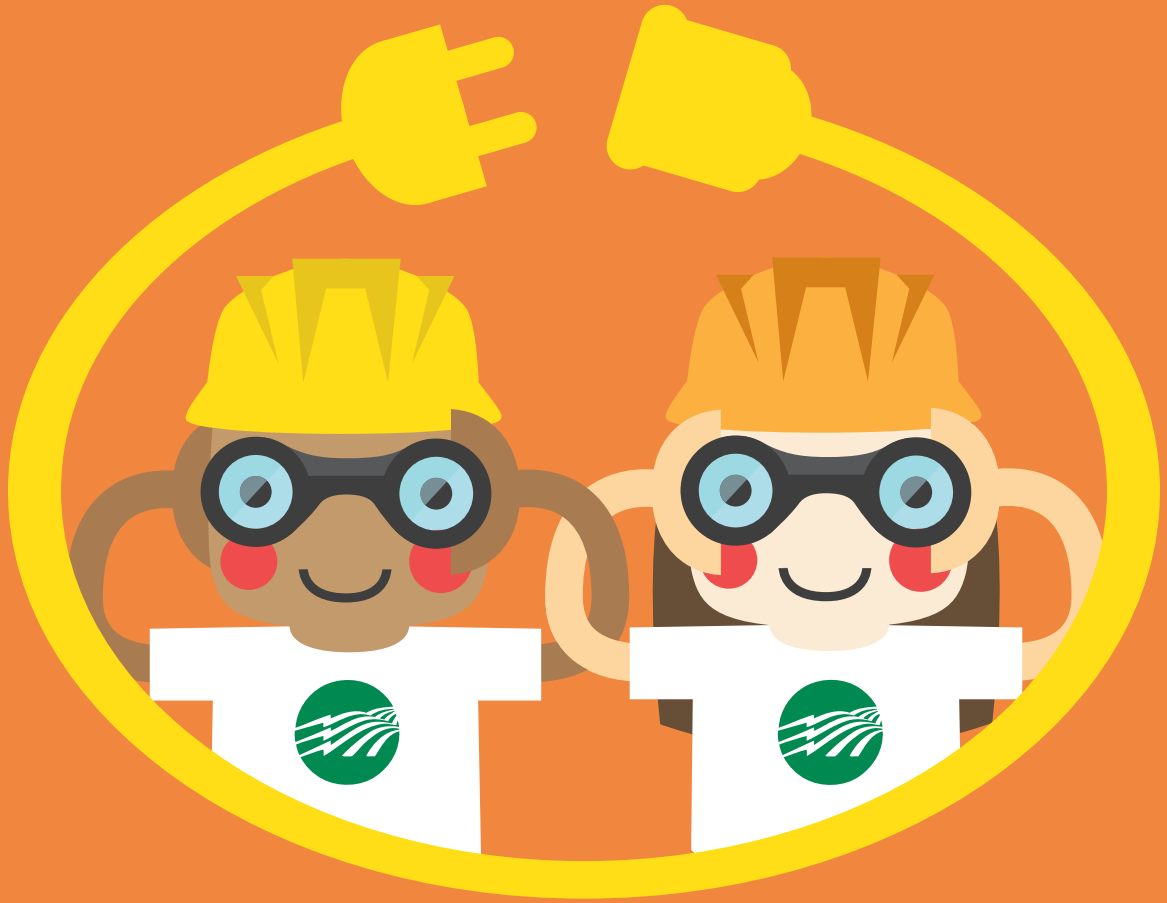


Fall Edition

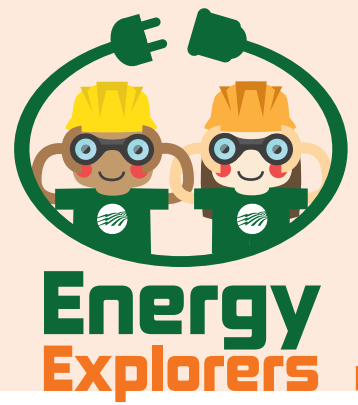


Energy Explorers

Southern Rivers Energy[®]

A Touchstone Energy[®] Cooperative 

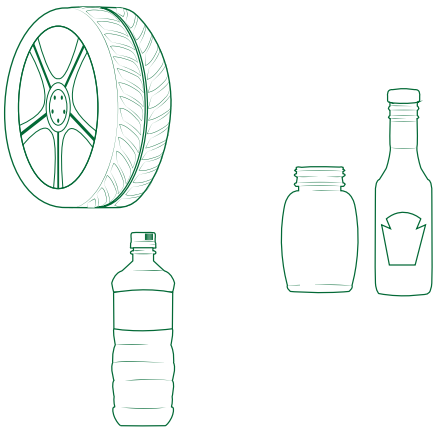
INSULATORS & CONDUCTORS WORD SCRAMBLE



Do you know the difference between insulators and conductors? Materials act differently when they come in contact with an electric current. Insulators provide difficult paths for electricity, so the current doesn't flow through them. For this reason, insulators can help protect you from electric shock. Conductors provide easy paths for electricity, which means currents pass through them quickly. This makes conductors dangerous around electricity, including lightning.

Unscramble the letters to reveal the names of common insulators and conductors for electricity. Use the pictures below for clues.

INSULATORS:

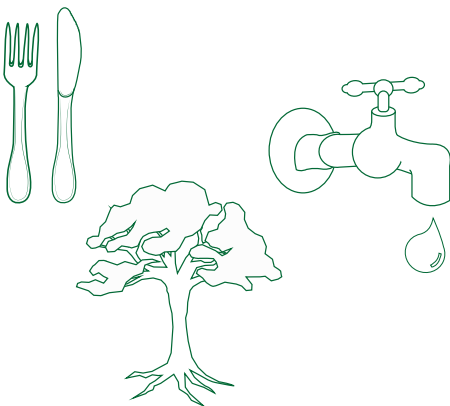


1. REBUBR

2. LGSAS

3. SIPALTC

CONDUCTORS:



4. LATME

5. TERWA

6. SRETE

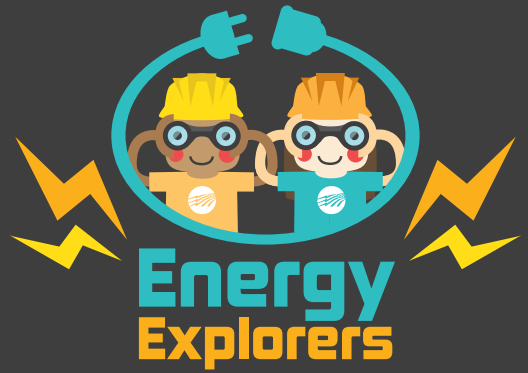
Answer Key: 1. RUBBER 2. GLASS 3. PLASTIC 4. METAL 5. WATER 6. TREES

Source: Culver Company

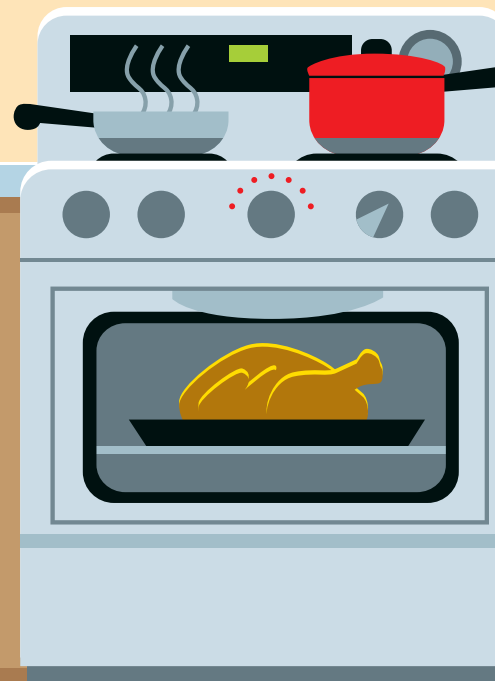
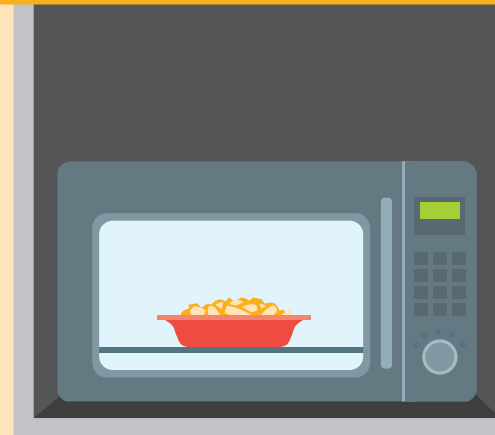
FALL SAFETY TIPS FOR KIDS!

Fall is finally here! The leaves are changing, the weather is cooler and the holidays are just around the corner. But Fall also brings a higher risk of home fires and electrical safety hazards.

Read the safety tips below and fill in the blank with the correct term from the word bank.



1. Candles and _____ should only be used by adults.
2. An adult should always stay in the kitchen when something is _____.
3. Smoke alarms should be tested every _____ to ensure they are working. Batteries should be replaced at least once every _____ or right away if they start to “beep.”
4. Make sure all _____ are blown out before leaving a room.
5. Keep any items that can burn away from the stove, toaster and other cooking _____.



WORD BANK

APPLIANCES
COOKING

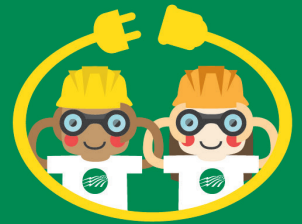
YEAR
MATCHES

CANDLES
MONTH



AMERICA'S ELECTRIC
COOPERATIVES

FALL COLORING SHEET



Energy
Explorers



ENERGY VAMPIRES ARE LURKING IN YOUR HOME



Save energy in your home by locating energy vampires!

These are the electronics and appliances that consume energy even when they are not being used. *Circle the energy vampires below, and use the key to check your answers.*



OVEN



CELL PHONE
CHARGER



CABLE/SET TOP BOX



LAPTOP
CHARGER



DISHWASHER



LAMP



Answer Key:
Cell phone charger, Laptop charger, Cable box



AMERICA'S ELECTRIC
COOPERATIVES

SORTING THINGS OUT



Recycling is important for the future of our planet! Can you sort the items below into the correct bin? Write the name of the item in the correct category.

RECYCLE

GARBAGE



Water Bottle



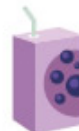
Apple



Cardboard Box



Sandwich



Juice Box



Soda



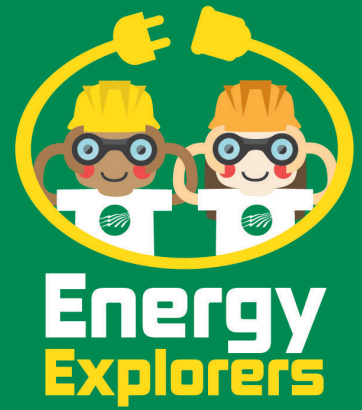
Newspaper



Styrofoam
Cup

Answer Key:
RECYCLE: Water Bottle, Cardboard Box, Juice Box, Soda Can, Newspaper
GARBAGE: Apple, Sandwich, Styrofoam Cup

HOME ELECTRICAL SAFETY INSPECTION

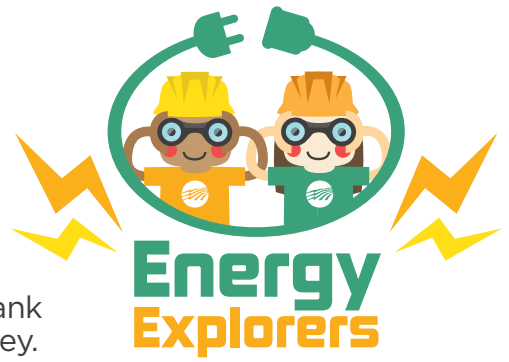


Always remember to use caution when you're near electricity! Ask an adult to help you complete the inspection below for your home. If you find any hazards, check "Needs Work," and ask an adult to fix them.

	True	Needs Work
1. Electric outlets are not overloaded.		
2. Electric cords do not run under rugs or furniture legs.		
3. No electric cords are worn or frayed.		
4. Electric appliances are kept away from water.		
5. There is a fire extinguisher in the house.		
6. Electric heaters are far away from flammable objects.		
7. Power tools are stored in clean dry areas.		
8. All smoke detectors are properly working.		
9. There are safety plug covers on outlets that are not in use.		
10. There are no trees near the house that interfere with power lines.		

POWER RESTORATION FILL-IN-THE-BLANK

When the power goes out, line crews work hard to restore service as quickly and safely as possible. Complete the fill-in-the-blank activity below to learn about the steps of power restoration. Use the word bank if you need help, and check your work in the answer key.

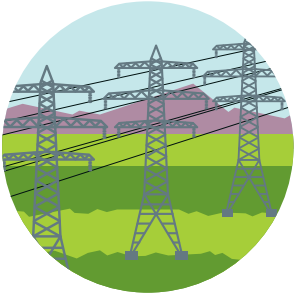


Word Bank:

distribution
pads

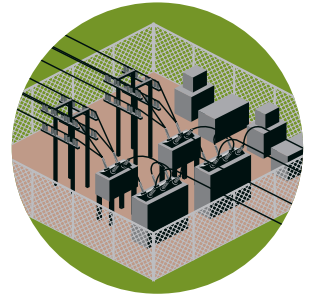
transformer
substations

transmission



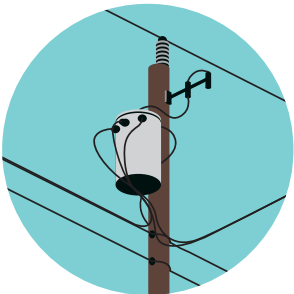
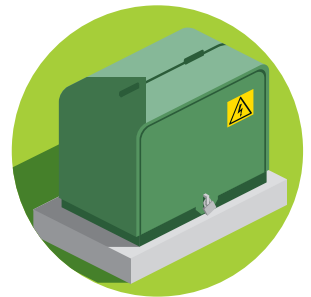
1. High-voltage _____ lines are the large towers and cables that supply power to the greatest number of consumer-members. They rarely fail, but if they do, they have to be repaired first.

2. Next, crews inspect distribution _____ for damage. They determine if the problem stems from the lines feeding into the equipment itself, or if the problem is further down the line.



3. If the problem still can't be pinpointed, _____ power lines are inspected. These are the lines you typically see on the side of the road that deliver power to communities.

4. If the power outage persists, supply lines (also known as tap lines) are inspected. These lines deliver power to transformers that are either mounted on poles or placed on _____ for underground electric service.



5. If your home remains without power, the service line between the _____ and your home may need repairs.

Flipping the Switch WORD SCRAMBLE



Do you know you can save energy every day in your home? By turning off appliances that are not in use, you have the power to save energy! For example, while the sun is shining, windows can allow sunlight into your house without having to turn on a lamp or a light switch.

Unscramble the letters to reveal the names of common appliances and electronics that you should turn off when not in use. Use the pictures below for clues.

APPLIANCES:



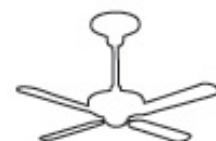
1. GLEICIN NAF

2. HTATOSMERT

3. HG TIL HCTWIS



4. ONSILEETVI

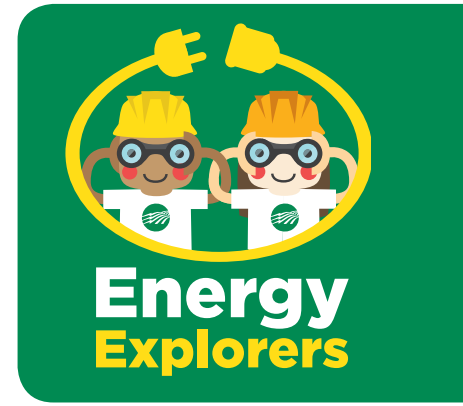


5. EWROP PRTIS

6. MGAE NOESCLO

STORM SAFETY CROSSWORD PUZZLE

Spring has finally arrived with colorful flowers and warmer weather. But the season can also produce severe storms. The Energy Explorers want to remind everyone to stay safe when severe weather hits. Complete the crossword puzzle below and share these tips with your family and friends.

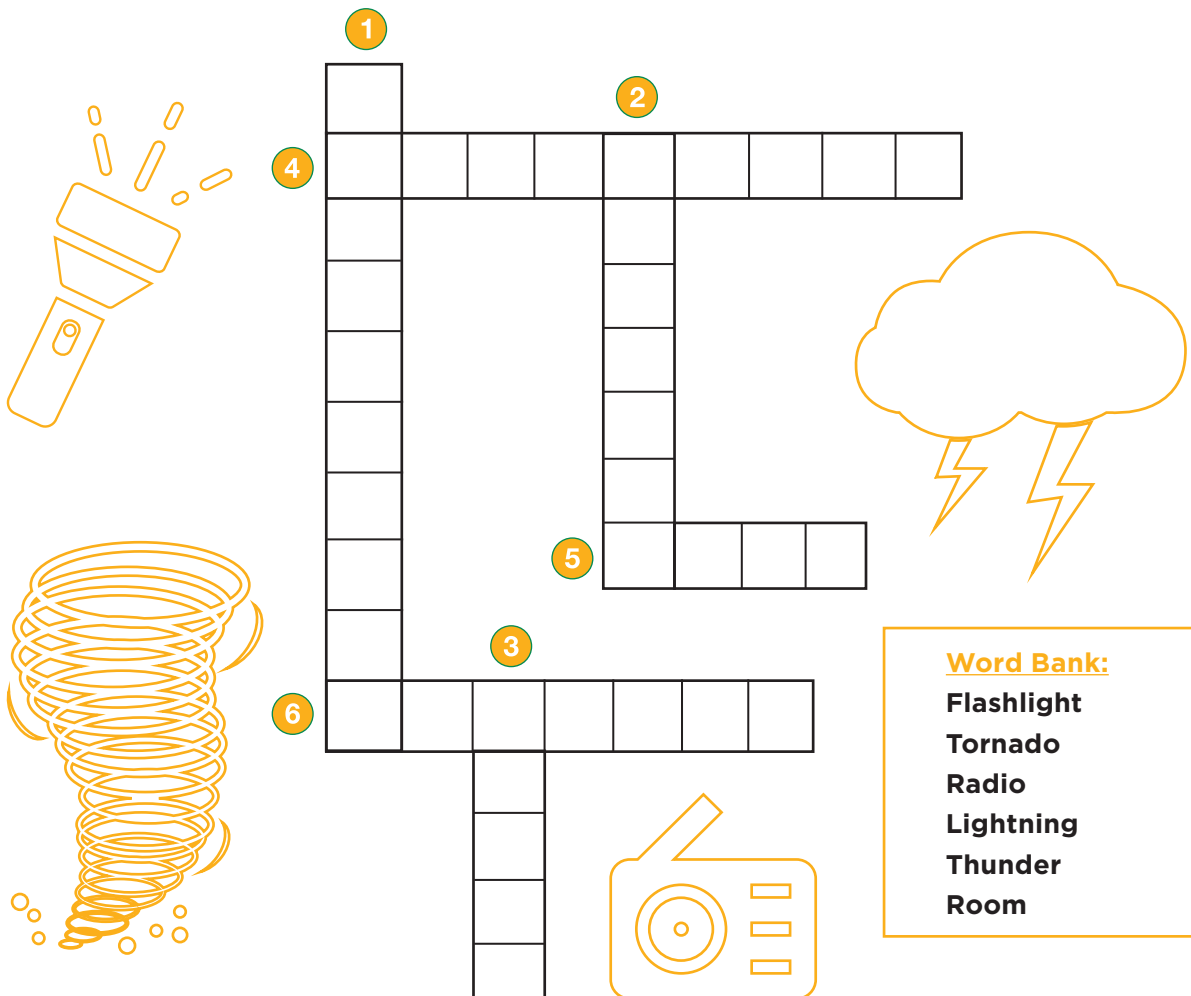


DOWN

1. Keep a _____ handy in case of a power outage.
2. If you hear _____ go inside. If you can hear it, you are close enough to be in danger from lightning.
3. Have a battery-powered weather _____ nearby so you can keep track of the severe weather.

ACROSS

4. Watch for signs of a thunderstorm, including dark skies, flashes of _____ or heavy winds.
5. If a tornado is heading your way, pick a safe _____ in your home where family can gather. The safest places would be a basement, storm cellar or interior room.
6. Practice a family _____ drill at least once a year.



1

2

4

5

3

6

Word Bank:
Flashlight
Tornado
Radio
Lightning
Thunder
Room