

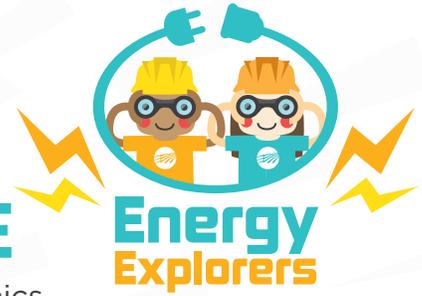


# Electrical Safety and Efficiency **ACTIVITY BOOK**



Puzzles  
Coloring Pages  
Activities  
And more fun  
that will help  
you learn to be  
safe and efficient  
with electricity.

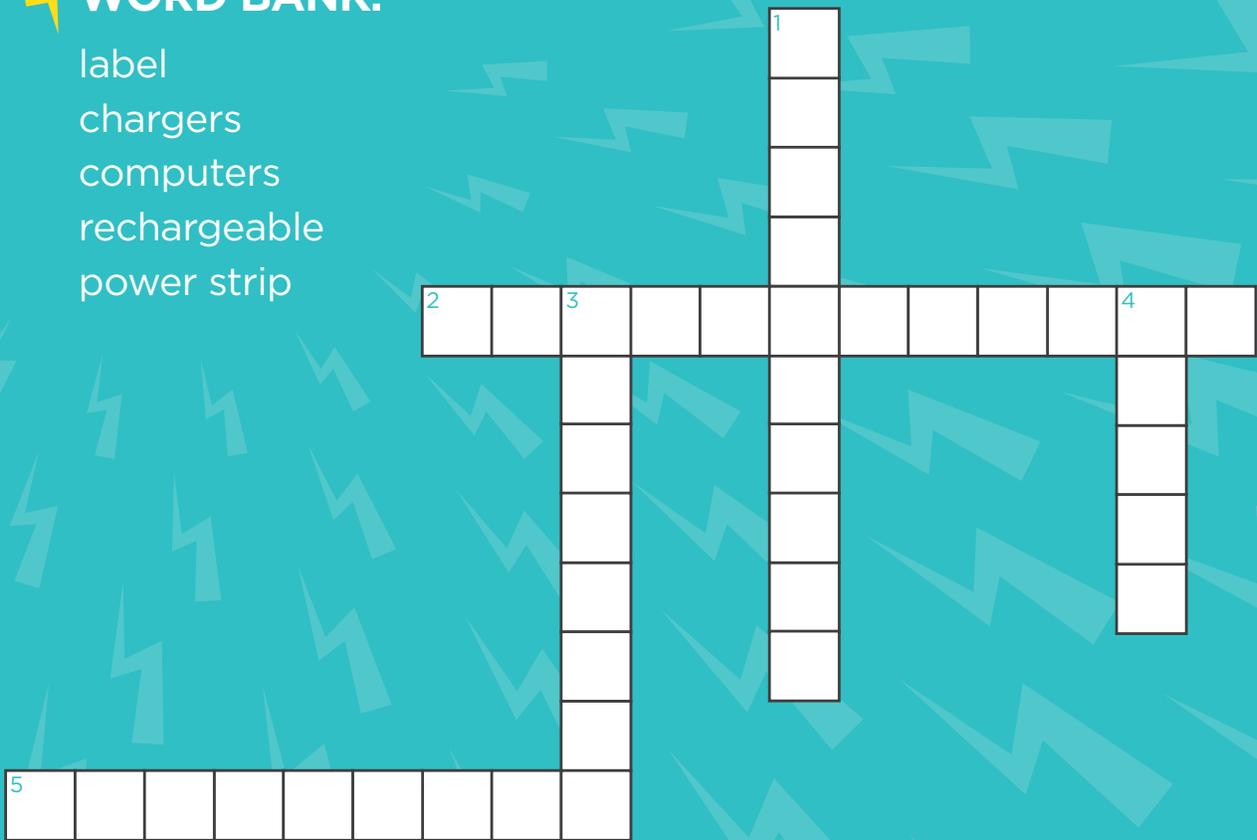
# ELECTRONICS EFFICIENCY CROSSWORD PUZZLE



Did you know there are ways you can reduce your electronics energy use? Complete the crossword puzzle below to learn about electronics efficiency.

## WORD BANK:

label  
chargers  
computers  
rechargeable  
power strip



**1 DOWN:** Use a \_\_\_\_\_ with an on/off switch when powering multiple electronics to easily manage energy use.

**2 ACROSS:** For devices that require batteries, use \_\_\_\_\_ ones, which are more cost-effective and environmentally friendly.

**3 DOWN:** Unplug electronic products, like \_\_\_\_\_, when you're not using them.

**4 DOWN:** Electronics that include the ENERGY STAR® \_\_\_\_\_ are the most energy efficient.

**5 ACROSS:** Many \_\_\_\_\_ come with a sleep mode or power management feature, which can save \$30 on annual energy costs.

**ANSWER KEY** 1. DOWN: POWER STRIP 2. ACROSS: RECHARGEABLE 3. DOWN: CHARGERS 4. DOWN: LABEL 5. ACROSS: COMPUTERS

# HOME ELECTRICAL SAFETY INSPECTION



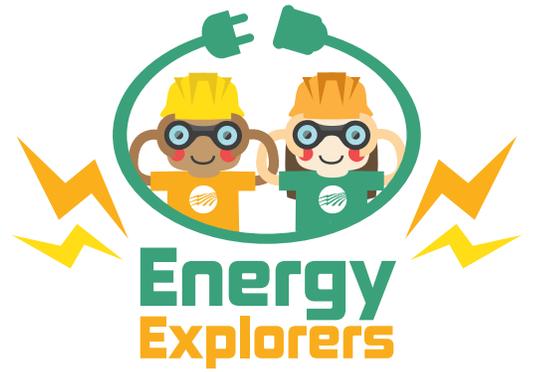
Always remember to use caution when you're near electricity! Ask an adult to help you complete the inspection below for your home. If you find any hazards, check "Needs Work," and ask an adult to fix them.

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.

True	Needs Work

# FAMILY PICNIC COLORING SHEET

An outdoor picnic is a great way to spend time with your family! Cooking outdoors also helps you save energy because you don't have to use appliances that heat up your home.



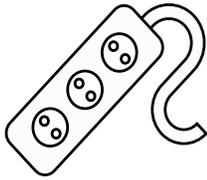
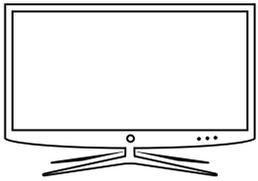
# Flipping the Switch WORD SCRAMBLE



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. HGTL HCTWIS

---

4. ONSILEETVI

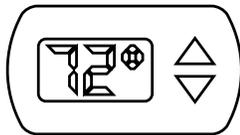
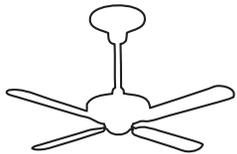
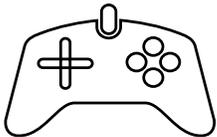
---

5. EWROP PRTIS

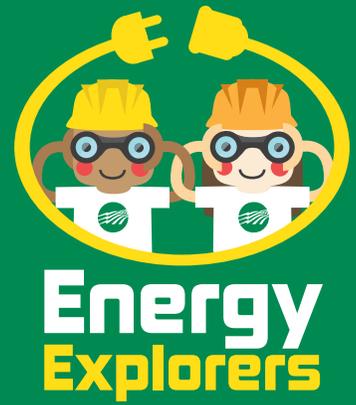
---

6. MGAE NOESCLO

---



# 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



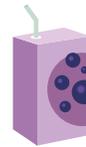
Apple



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

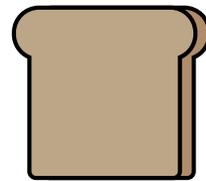
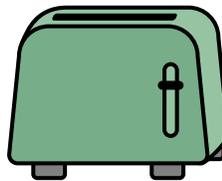
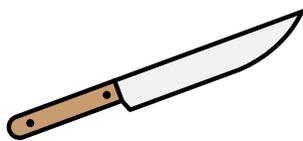
# ELECTRICAL HAZARD ACTIVITY



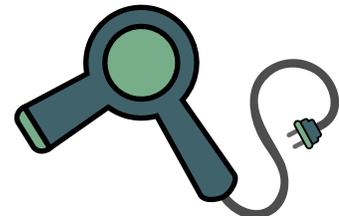
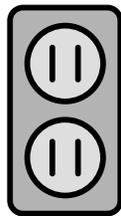
The Energy Explorers want to remind you to always practice electrical safety! Remember, electricity can be dangerous, so make sure to avoid electrical hazards.

**DIRECTIONS:** Circle the item that doesn't belong. **HINT:** If all three items in the row were combined, which would make the situation an electrical hazard?

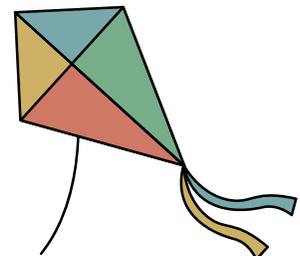
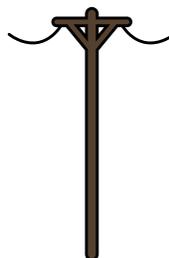
1



2



3

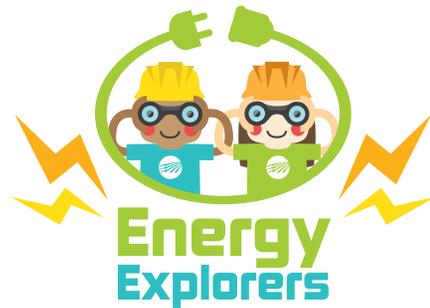


Answer Key  
1. KNIFE  
2. SINK  
3. POWER LINES

# COOPERATIVE WORD SEARCH

As a member of an electric cooperative,  
you're part of something special!

Read the facts below to learn how  
co-ops are unique, then find and circle  
the **BOLDED** words in the puzzle.



## WORD BANK:

- **COOPERATIVES** are local organizations and businesses, so they understand the communities they serve.
- Co-ops don't have customers; instead, they have **MEMBERS**.
- All co-ops are guided by the same set of cooperative **PRINCIPLES**.
- "Concern for **COMMUNITY**" is the seventh cooperative principle.
- Co-ops are led by the members they **SERVE**.
- You're a member of an **ELECTRIC** cooperative, but there are also housing, grocery and other types of co-ops.

# GEARED FOR SAFETY

Electric co-op lineworkers wear special gear to help them stay safe on the job. Can you match the descriptions below to the correct safety equipment? Use the answer key to check your work!



**Energy Explorers**

Hard Hat

Safety Goggles

Flame-Resistant Clothing

Insulated Gloves

Equipment Belt

Work Boots

1. These provide extra protection while lineworkers work with heavy materials that could fall near their feet.

---

2. This material keeps lineworkers safe from electrical hazards.

---

3. This protects lineworkers from head injuries and falling debris.

---

4. These insulated protectors keep lineworkers safe from electrical shock while working on power lines.

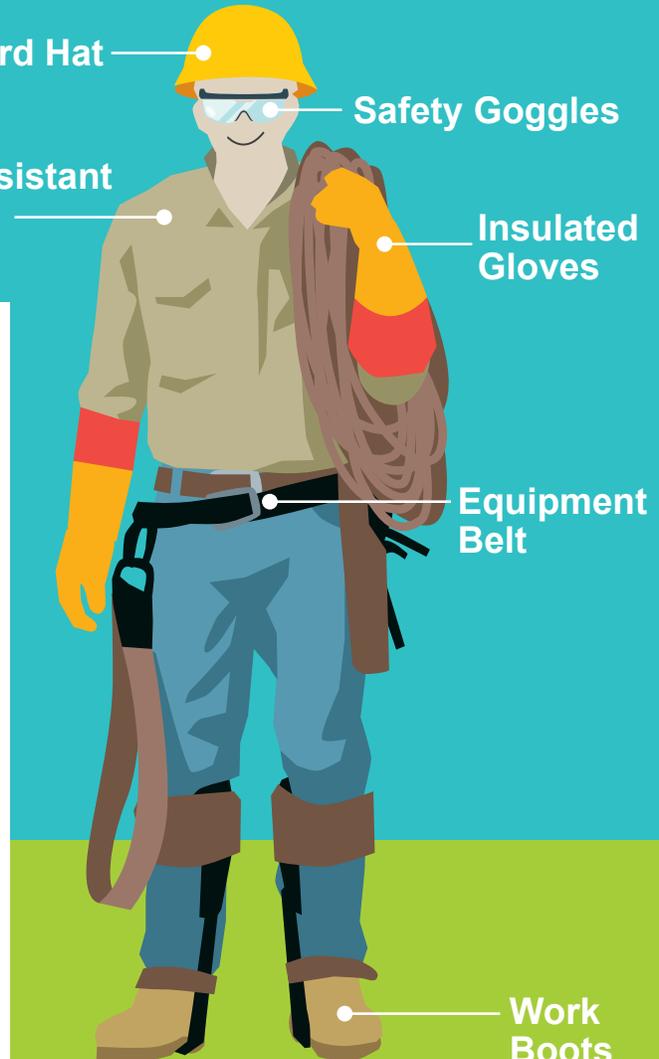
---

5. These keep debris away from lineworkers' eyes while on the job.

---

6. This is a handy piece of safety gear that holds tools and other equipment.

---



Answers: 1. Work Boots 2. Flame-Resistant Clothing 3. Hard Hat 4. Insulated Gloves 5. Safety Goggles 6. Equipment Belt

# ENERGY EXPLORERS BINGO

Be an **Energy Explorer**! Cross out each task you finish. Ask an adult for help where needed. Complete any **three** rows, columns, or main diagonals. To earn a prize, turn this card in by:



B	I	N	G	O
Share an energy saving tip with a loved one.	Check to ensure an electrical outlet is not overloaded. (But don't touch)	Unplug a device that is not in use.	Check for a fire extinguisher.	Take a shorter shower/bath to use less water.
Check if there are trees near the house that interfere with power lines.	Unplug a charger that's not in use.	Tell one friend why electrical safety is important to you.	Check if electrical cords are worn or frayed, but don't touch them.	Turn out a light when leaving the house.
Turn off a ceiling fan in an empty room.	Check to see if you have a programable thermostat.		Recycle a can, bottle or paper.	Make sure doors/windows are closed when AC/heat is on.
Put a computer to sleep.	If any electrical cords are under a rug or carpet, tell an adult.	Ask an adult the last time the HVAC filter was cleaned. (It should be every 60-90 days)	Ask if you have an Energy Star appliance.	Locate a flashlight in case of emergency.
Turn off the water while brushing your teeth.	Check to make sure liquids are away from electronics.	Ask if smoke detectors are working.	Tell an adult family member about a leaky faucet.	Check if any incandescent or CFL bulbs can be replaced with an LED bulb.

NAME \_\_\_\_\_