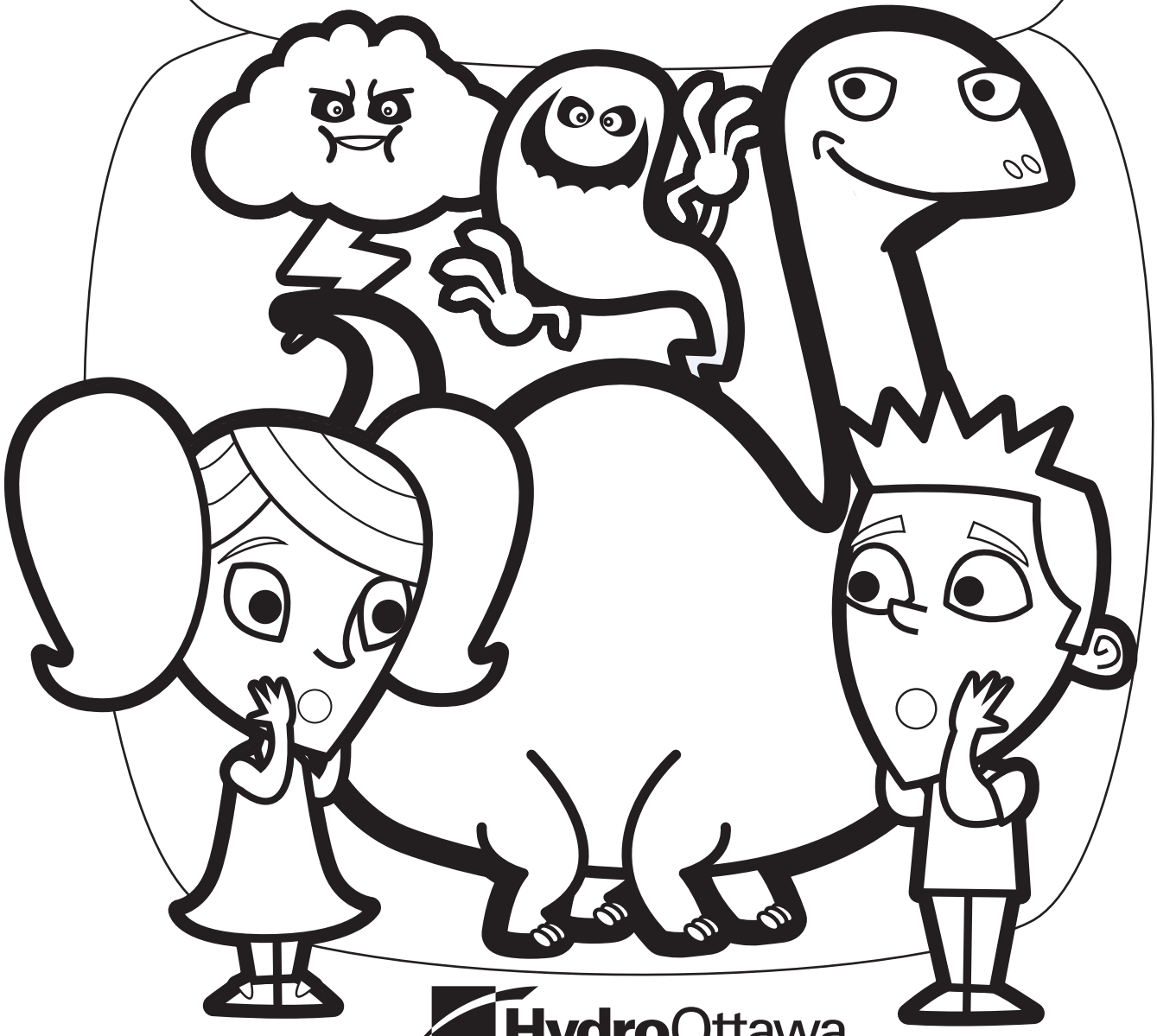
AMAZING TALES OF ELECTRICITY, SAFETY & CONSERVATION



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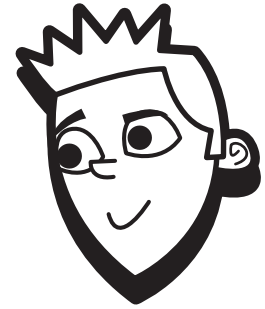
SHOCKING FACTS!



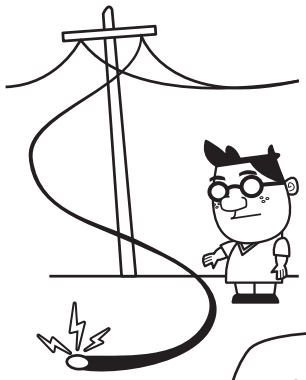
1. 90% of the electricity used by regular light bulbs goes into making heat, which is why they are so hot to touch. CFL light bulbs (the ones that look like ice cream cones) don't waste energy getting hot. They use 75% less energy and last seven times longer. That's cool!

3. Beware the phantom!
Lights, TVs, computers, stereos and video game units all use electricity, even when they are turned off. It's called "phantom load." Tell your parents about power bars with timers. They turn things off when not in use. This will save electricity and money.

2. Coal and natural gas are called "fossil fuels" because they were formed deep in the ground when dinosaurs walked the earth. Once we use them up, they're gone, forever. That's why they are called non-renewable energy.

4. Lightning is not confined to thunderstorms. It's been seen in volcanic eruptions, extremely intense forest fires, heavy snowstorms, and in large hurricanes.

SHOCKING & PUZZLING



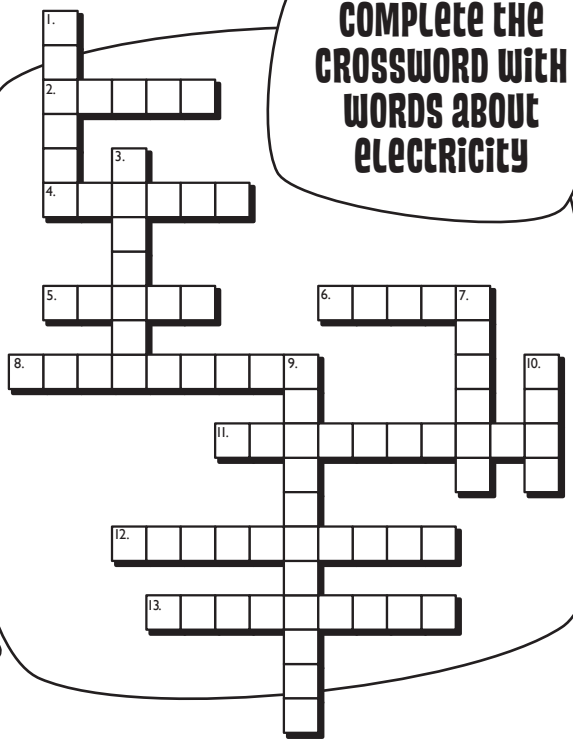
ACROSS ⇨

2. **In order to use electrical energy, it is converted to_____.**
4. **Where electricity wants to travel**
5. **A small flash of light, a sign of danger**
6. **What electricity travels through**
8. **We can generate more**
11. **Use this to adjust the temperature**
12. **Saving power**
13. **When an appliance is working at its best, it's known as...**

DOWN ⇩

1. **The easiest way to avoid phantom power is to_____ your equipment.**
3. **Pressures electricity to go where it's needed**
7. **What's your goal?**
9. **_____is a form of energy.**
10. **A conductor gives electricity a_____.**

Complete the crossword with words about electricity



WORD JUMBLE

These words have been jumbled. What are they?

1. **MARGEPEA** _____
2. **ISLARSNTOU** _____
3. **NLHTNIGIG** _____
4. **GYENRE** _____
5. **DCCUONTRO** _____
6. **DCRO** _____
7. **ICIUCTR** _____
8. **AFLHS** _____
9. **DZHAAR** _____
10. **EECTSRP** _____
11. **REPSSUER** _____
12. **PRPECO** _____
13. **UANMMIUL** _____
14. **UTOTLE** _____
15. **KOHSC** _____

Learn the terms!

INSULATORS are materials that make it more difficult for electricity to travel through them, such as glass, ceramic, porcelain, rubber or air.

CONDUCTORS are materials that electricity can travel through fast and easily, such as copper, aluminum, water... and you.

AMPS OR AMPERAGE is the volume of electricity used. For instance, the stove in your kitchen uses more amps of electricity than your electric toothbrush.

VOLTAGE is the electrical pressure necessary to direct electricity to where it is needed, for example to a light bulb or your television.

ANSWERS: **CROSSWORD: ACROSS** 2. POWER, 4. GROUND, 5. SPARK, 6. WIRES, 8. RENEWABLE, 11. THERMOSTAT, 12. CONSERVING, 13. EFFICIENT **DOWN** 1. UNPLUG, 3. VOLTAGE, 7. SAFETY, 9. ELECTRICITY, 10. PATH **WORD JUMBLE:** 1. AMPERAGE 2. INSULATORS 3. LIGHTNING 4. ENERGY 5. CONDUCTOR 6. CORD 7. CIRCUIT 8. FLASH 9. HAZARD 10. RESPECT 11. PRESSURE 12. COPPER 13. ALUMINUM 14. OUTLET 15. SHOCK

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Hey Kids!

Visit Hydro Ottawa's website for fun, educational games.

www.hydroottawa.com/conservation

click on Educational Games

Here are some other fun websites you can visit to learn more about electrical safety and conservation:

www.ene.gov.on.ca/en/ezone
www.oee.nrcan.gc.ca/calendarclub

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