

They Mystery of the Glowing Light



Activiy Book



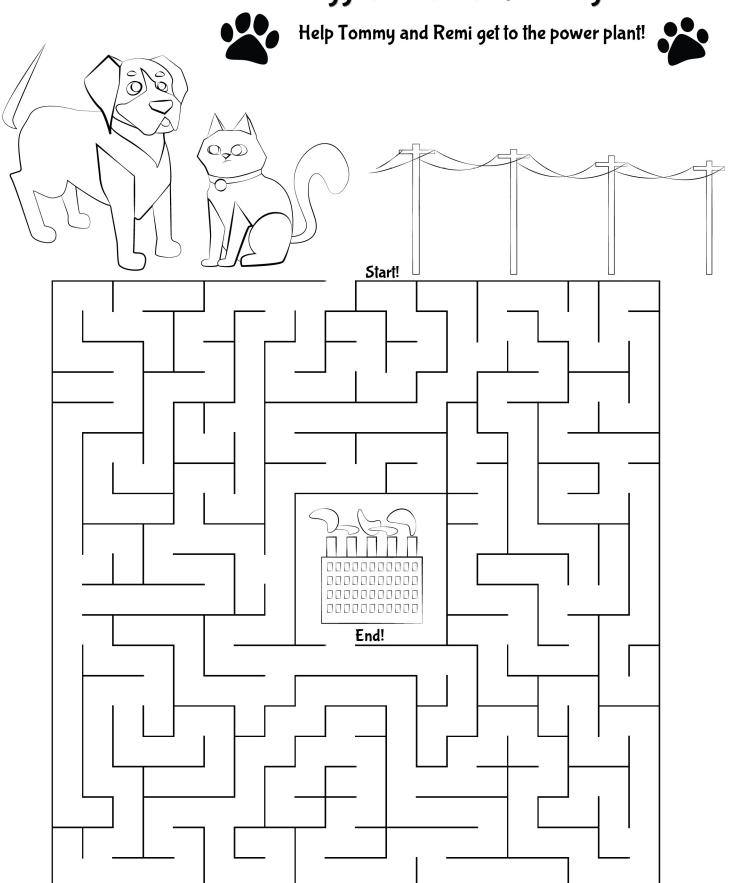




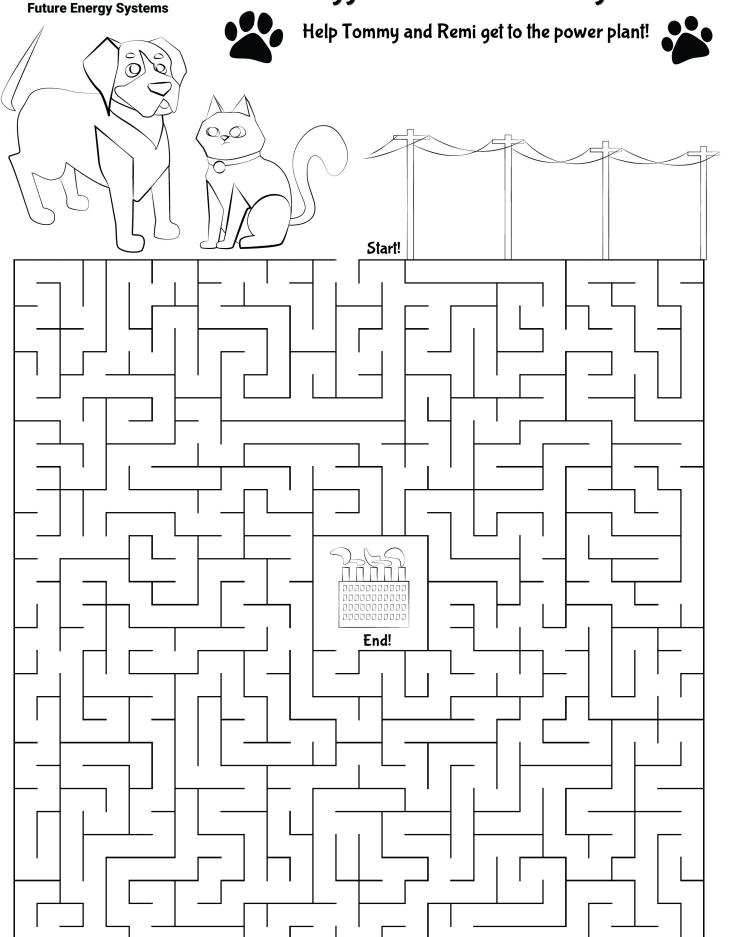


Future Energy Systems

The Energy Adventures of Tommy and Remi









Energy Adventure Word Search



PWPYNRAEPAVO B В В В G B K ENERGYU

ATOMS
BATTERY
CLIMATE
CURRENT
ENERGY
GRID
LIGHT



MAGNET
PLUG
REDUCE
REGINALD
REMI
TESLA
TOMMY



TURBINE
USE
VOLTAGE
WIRES
WEATHER





🗸 Energy Adventure Word Search 🤧



BBATTERYCRTESLWEATHERRBCN PUERENWTYARTMI LORNNTRANFNAOR SAWOEAEDNRAGNB GEEGWIMRNOMNSNGNVROE NTUREAUGPGREUMR ENOPNBATODY A T S CORТ Ε S R E B T Ε ENG Ε TNAAR NAECWEANOPHAD S R TGAMU AMGOK IUQVNRE LPOUYERAGNDY MANCRNONRENEWA В L Ε Ε BZKВЕ E C SANXOTARSOA YLRNQSRGNWR TDMPAOOEHQH R TNMHPNG ΥO TFMOKF R Ε UNMSMNCROMN BONUNDQXZQMFARVRAGHE SSBLMK RONSRF OROM KOVBFXRRLRGAPAH VTROOUT A P Y C G Z G S Q O] R E G H T C Z C U R R E N T

ADVENTURE
ATOMS
BATTERY
CLIMATE
CURRENT
DISTRIBUTION
ELECTRICITY
ELECTRONS
ENERGY
GENERATOR
GREENHOUSE GASES
GRID

LIGHT
MAGNET
NONRENEWABLE
PLUG
POWER PLANT
REDUCE
REGINALD
REMI
RENEWABLE
TESLA
TOMMY
TRANSFORMER
TRANSMISSION





You may have seen the lights in Reginald's house. They run on an electrical circuit. A circuit is a pathway for electrons to flow constantly.

A simple circuit has 4 parts:

- 1. Power source, like a battery
- 2. Conductors, like wires that the electrons flow along
- 3. Load, like a light
- 4. Switch, which opens or closes the circuit

A circuit can be closed or open. Only when it's closed can the electrical current flow. When it is open, there is a break somewhere in the circuit.

Are you ready to build your own circuit?

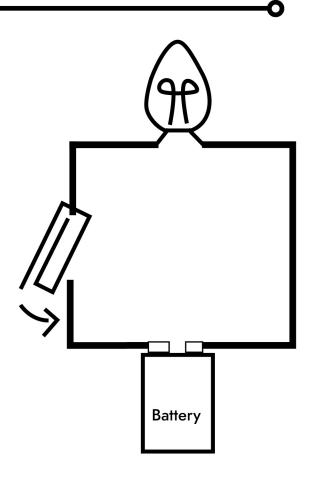
- 1. Fold tinfoil into strips.
- 2. Make a square with the strips, like you see here. Make sure to leave a gap for your switch.
- 3. Tape down the square to your table.
- 4. Place the light bulb at the top. Tape the wire to the tinfoil on both sides.
- 5. Place the battery at the bottom. Make sure the two sides of the battery (the positive and negative ends) are connected on opposite sides of the tinfoil.
- 6. Watch what happens to your light.
- 7. Remove the battery and place your paperclip over the gap you left and secure with the thumb tack (push the tack through the tinfoil with the pointy side up, but be careful!).
- 8. Move the paperclip to different positions and return the battery to the bottom.
- 9. What happens to the light when the paperclip touches both sides of the tinfoil?



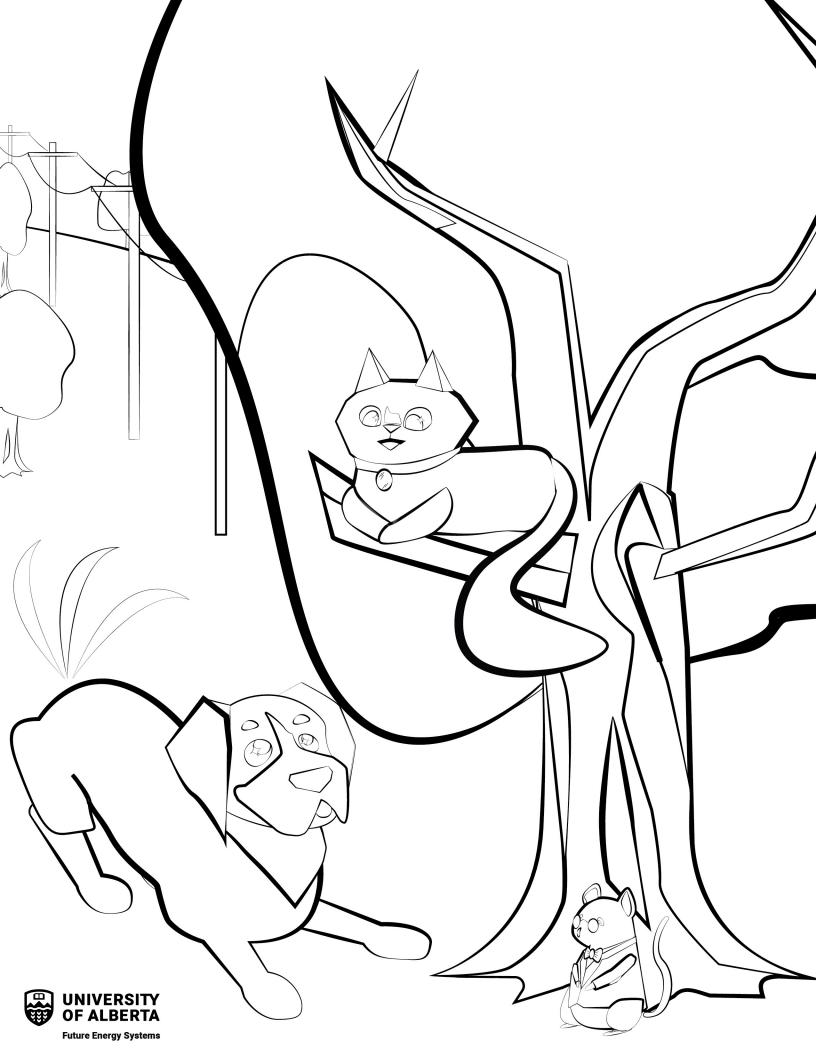
- · 9 volt battery
- · Tinfoil (Folded Into Strips)
- LED light
- Metal paperclip

ummummum d

- Metal thumb tack
- · Tape









The Mystery of the Glowing Light Grade 3 and Under



Tommy and Remi learned about many sources of energy that can be used to generate electricity. Choose a source and list one good thing and one bad thing about it.

Room:
Items:

Room:
Items:

Room:

Items:

In each of those rooms, count the number of switches and wall outlets.

Explore four rooms in your home and find at least three things that use electricity.

Room:
Switches:
Wall outlets:

Room:
Room:
Switches:
Wall outlets:

Room:
Switches:
Switches:
Wall outlets:

Wall outlets:

We can often waste a lot of energy by leaving the lights on or not unplugging things. List two things you can do to reduce your electricity use.

1.

Room:

Items:

2.





The Mystery of the Glowing Light Grade 4 and 6 SWITCH ON, SWITCH OFF



Tommy and Remi learned about many sources of energy that can be used to generate electricity. Select two of them and list one benefit and problem with each.

Let's explore the energy in your house. Pick three rooms and count the number of:

Room	1	2	3
Switches			
Lights			
Wall outlets			
Other things that use electricity (list them)			

Do you notice any difference between the rooms? Why do you think there are differences?

We can waste a lot of electricity by leaving the lights on or not unplugging things. List two things you can do to reduce your electricity use at home and one thing you can do at school.

ŀ	\dashv	0	m	6
		$\mathbf{\mathcal{L}}$		$\overline{}$

1.

2.

School:

1.







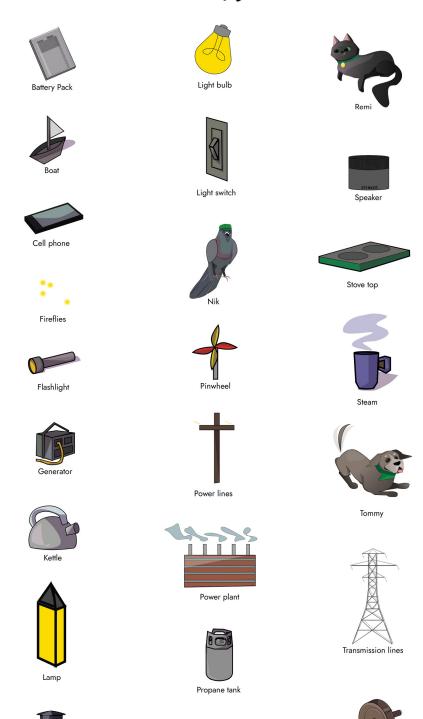






Can you find all of the objects in the campground?





Reginald



Water wheel

