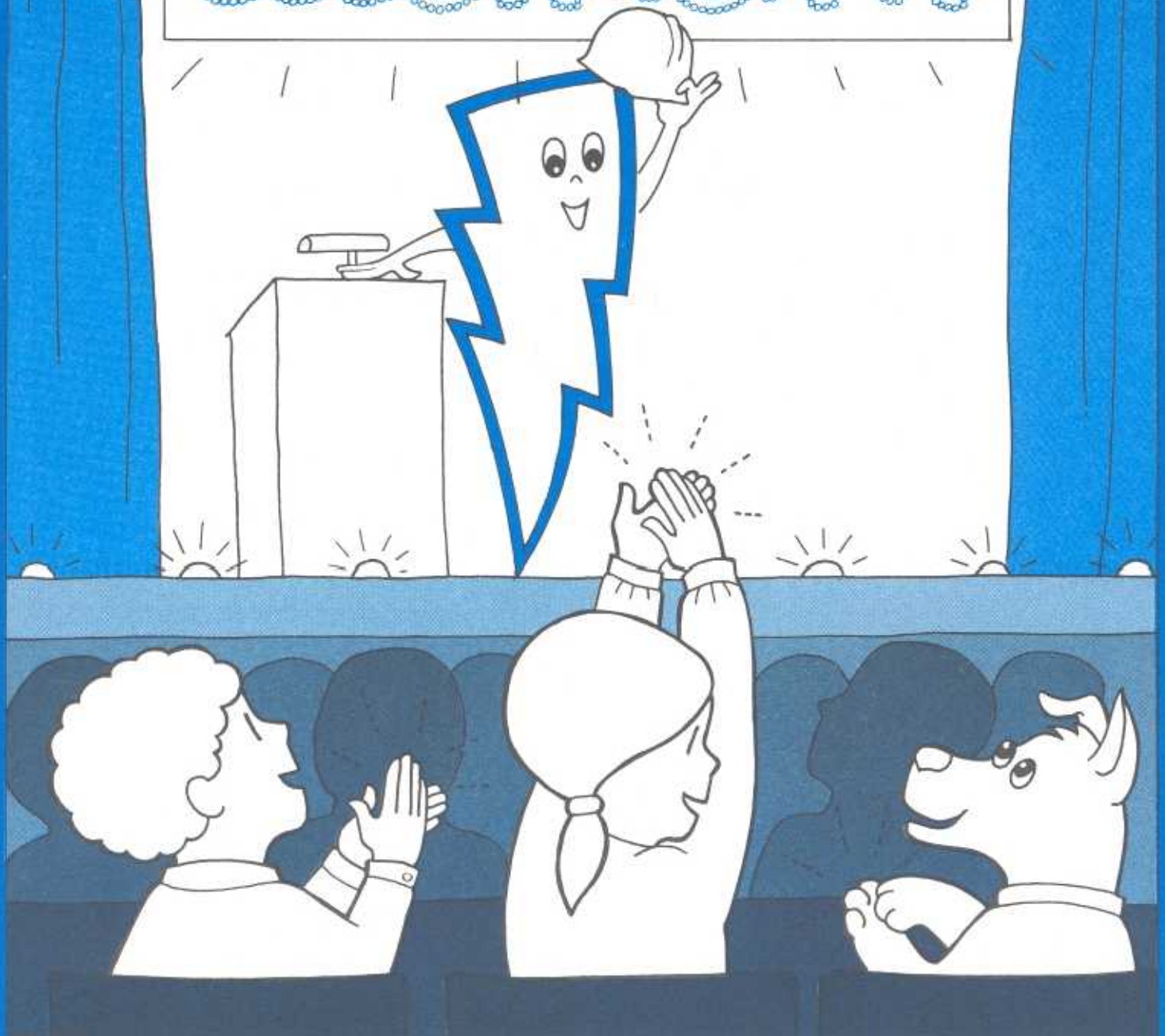
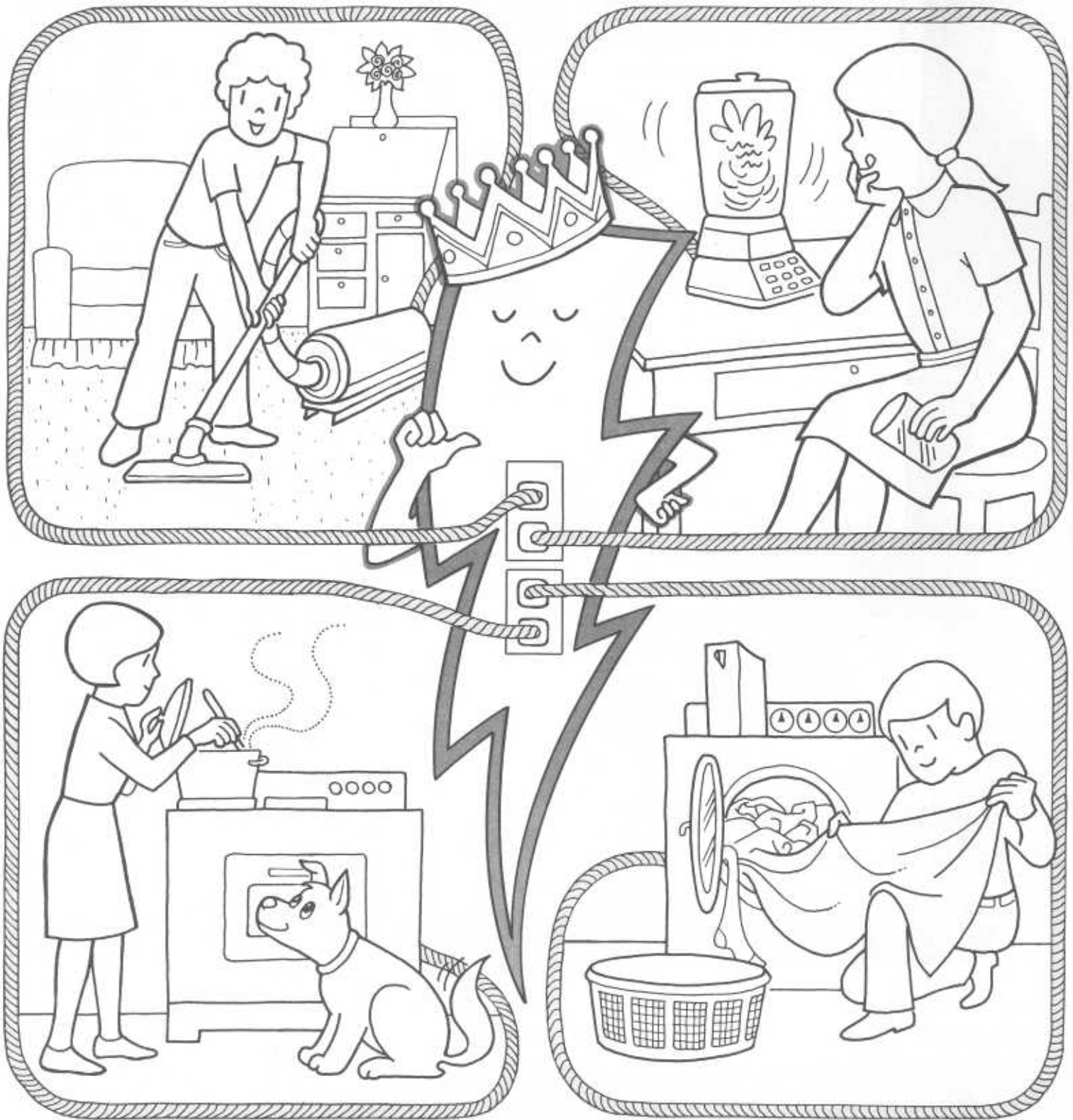


LET'S LEARN ABOUT ELECTRICITY!



This book
belongs to

ELECTRICITY is our #1 SOURCE OF POWER!



Electricity is **ENERGY**. We can't see it, but we know
it exists because it does so much for us.



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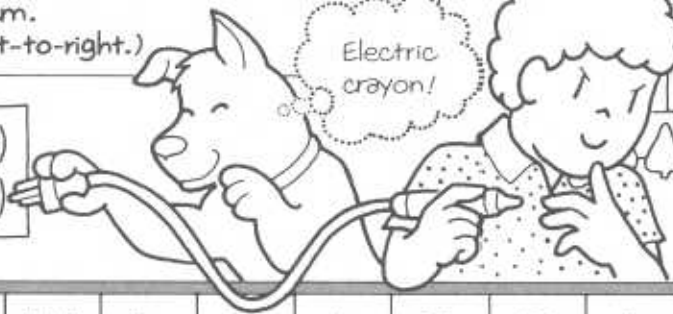
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Electricity is used **AT HOME,** **IN SCHOOLS** and **AT WORK.**

Hidden in the square below are the names
of 8 things powered by electricity.

- LIGHTS
- TELEVISIONS
- COMPUTERS
- RADIOS
- TELEPHONES
- ELEVATORS
- X-RAYS
- STOVES

Find and circle them.
(Read down or left-to-right.)



Electric
crayon!



A	B	X	W	L	K	A	E	G	L	O	W	X	Y	I
O	T	C	U	B	S	T	O	V	E	S	B	R	H	E
S	E	T	O	L	E	T	I	N	T	O	G	A	U	L
B	L	I	L	I	G	H	T	S	E	R	I	Y	J	E
W	E	L	L	N	U	C	A	N	X	A	N	S	Z	V
A	P	L	A	Y	O	N	I	D	A	D	O	E	D	A
L	H	E	L	A	G	I	F	O	B	I	T	B	M	T
K	O	T	E	L	E	V	I	S	I	O	N	S	H	O
O	N	W	N	M	P	S	Z	E	L	S	G	R	X	R
R	E	T	G	X	Q	C	O	M	P	U	T	E	R	S
N	S	D	Y	C	V	G	U	J	S	Z	F	K	H	W

(Answers on page 15.)

Learn **HOW** electricity is **MADE.**

Most power plants use
FOSSIL FUELS
to help produce electricity.

Unscramble these words
which name 3 fossil fuels:

① ACOL

② LOI

③ NATURAL
AGS

Fossil fuels
were formed long
ago from decayed
plants and
animals.

GEOLOGY

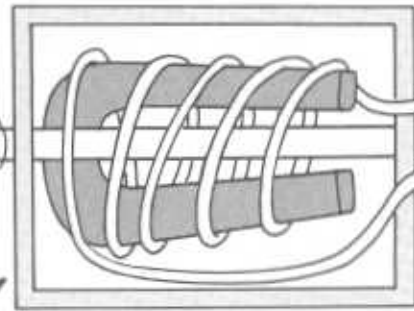
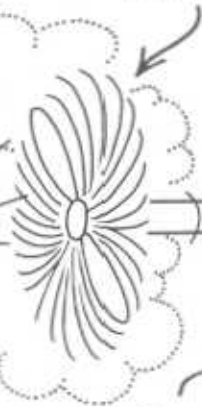


Fossil fuels are
BURNED IN HUGE FURNACES.

① Fire heats water to make **STEAM**.



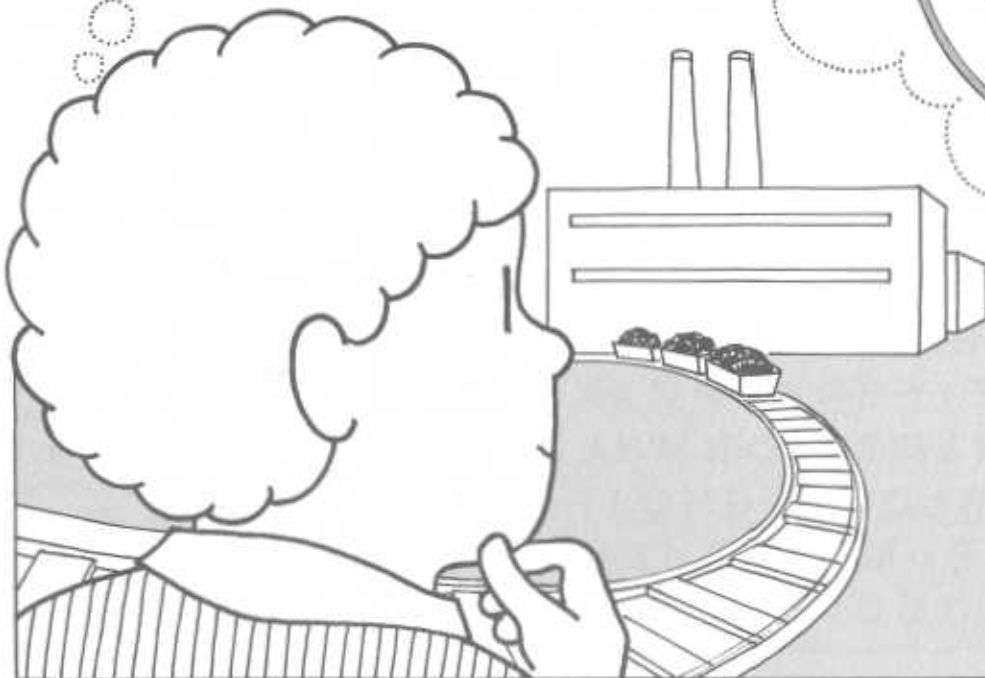
② Steam turns a **TURBINE** (a propeller mounted on a shaft).



③ A spinning shaft turns magnets inside coils of wire in a **GENERATOR**.

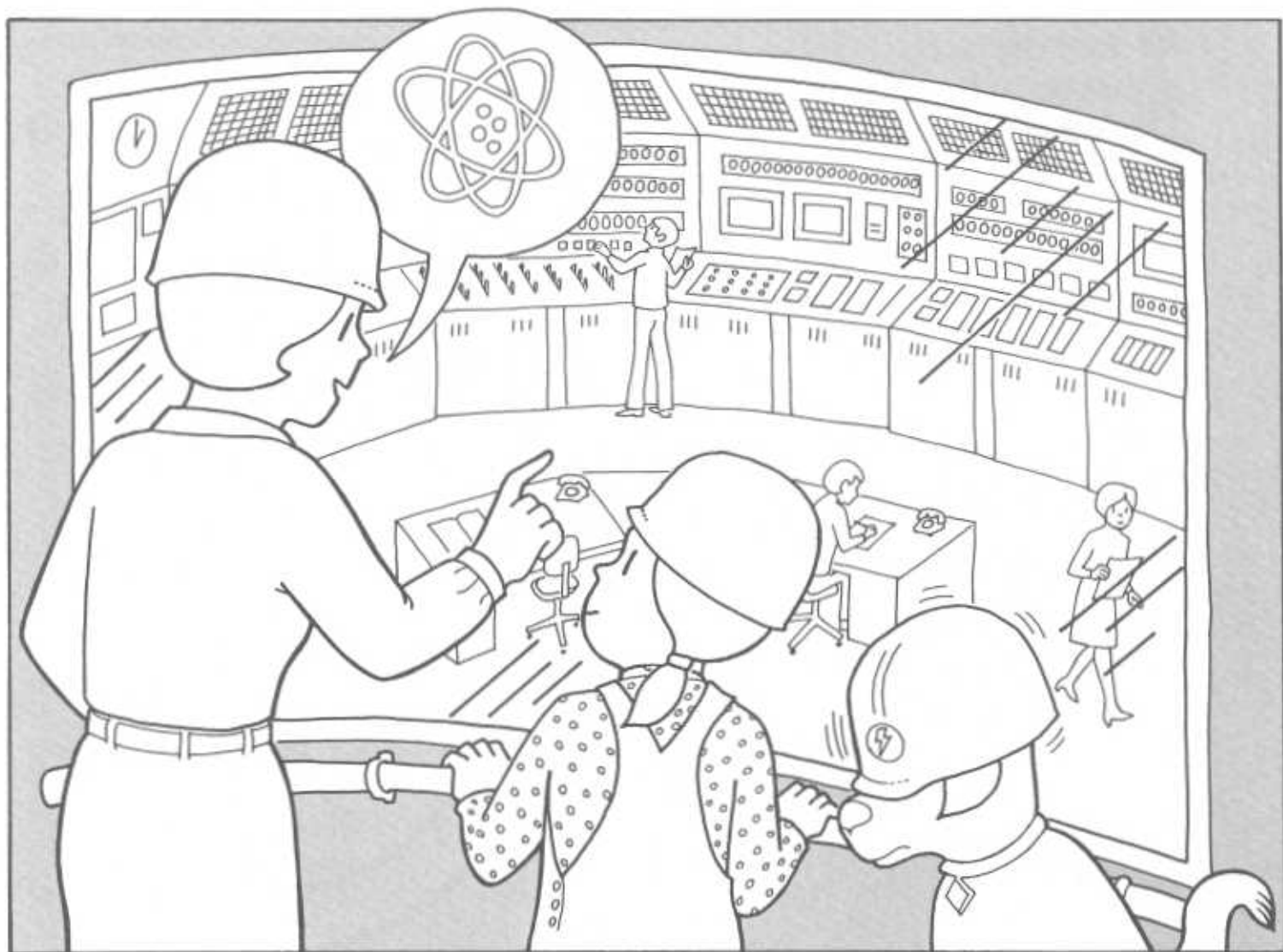


④ The result...
ELECTRICITY!



NUCLEAR POWER PLANTS

make electricity using uranium. This special fuel made from rocks heats water in a special building to make steam.



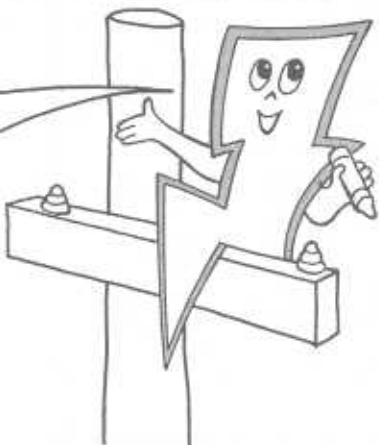
EXVBEFNXTGHCEAWUIMNYDITBHZEG
SRUFNDHSEIAQTYFSRUOPMXTBHOEN
EFADRHTIHJAKNLDTSJONMHEP
WOANS GTIEZPQRLOSDYUHCJTASM
CVAWNXHSEDLAPDMYAHKUEN
ECLNEGCDTZROIYCDIGTKYN.

**TO READ THIS
SECRET MESSAGE,**
write down the
first letter and
then every other
letter after.

(Answer on page 15.)

HYDROELECTRIC PLANTS

use billions of gallons of water to turn a turbine and produce electricity.

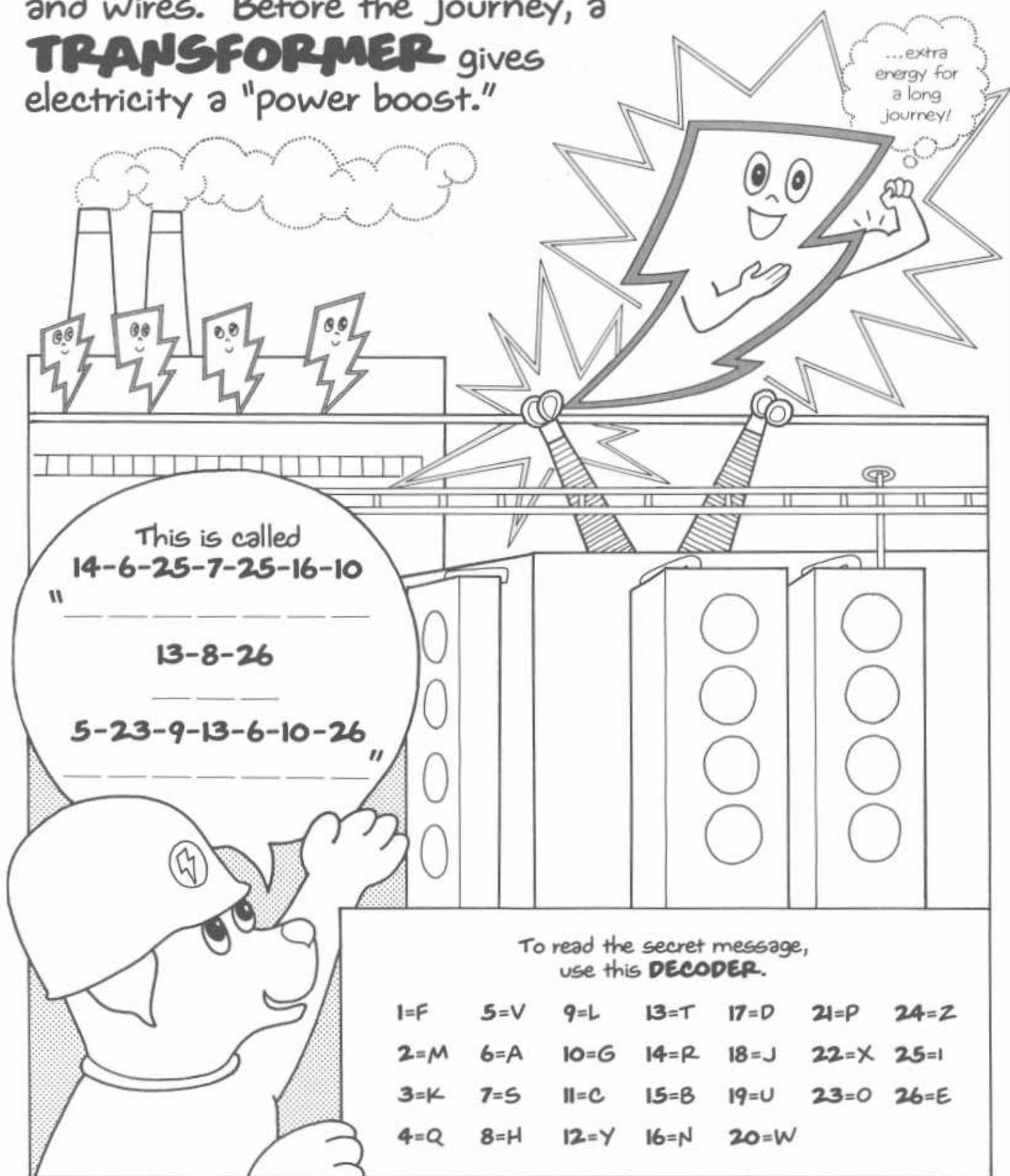


E _____,

_____, _____
_____, _____

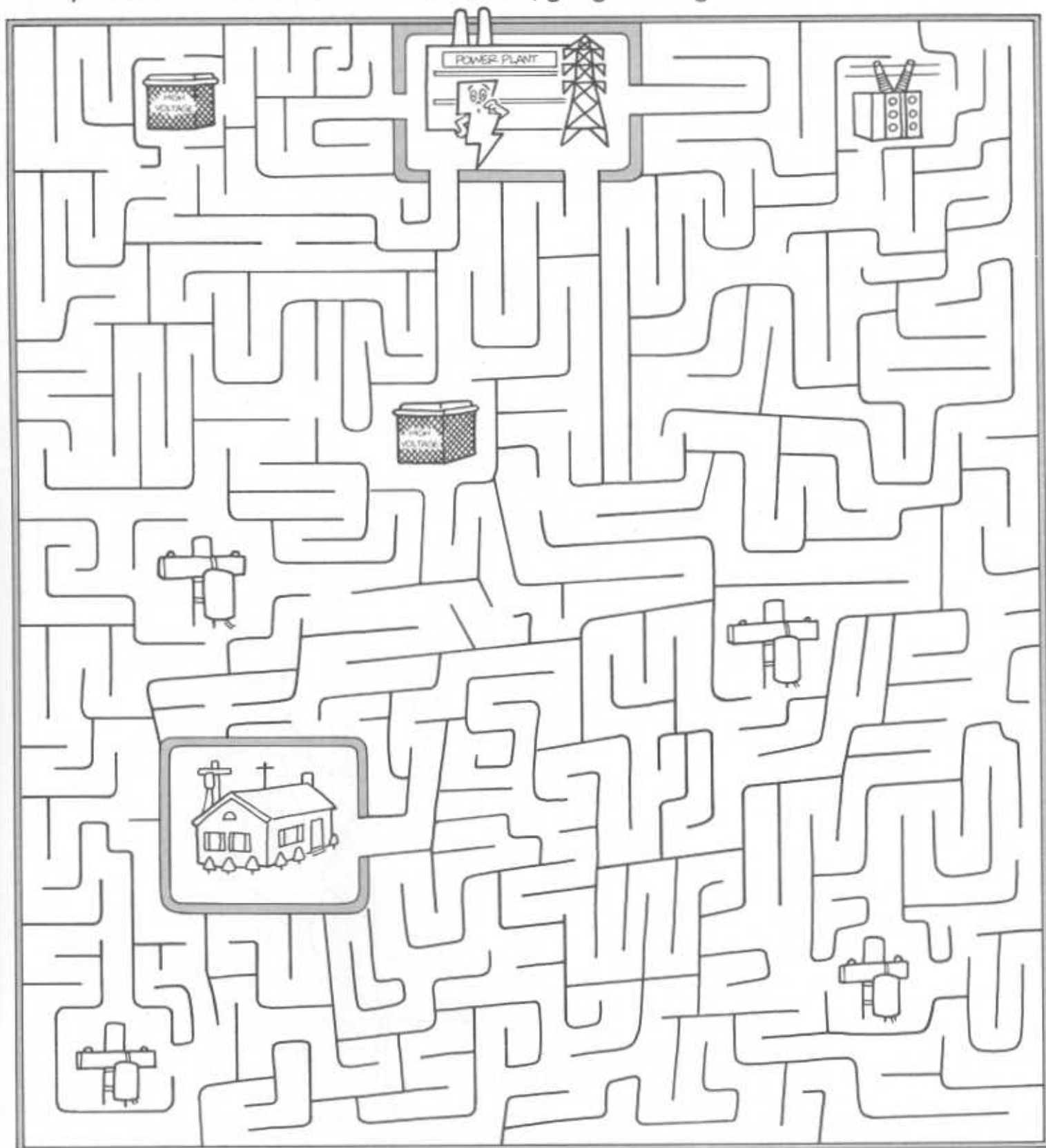
_____.

Electricity travels many miles through cables and wires. Before the journey, a **TRANSFORMER** gives electricity a "power boost."



Before electricity enters your home, another transformer **LOWERS THE VOLTAGE.**

Help electricity find its way from the power plant to the house. If you come to transformers or substations, go right through them.



Many people work for electric utilities:

METER READERS

check meters to see how much electricity families use.



LINE WORKERS

make repairs to keep electricity flowing.

They protect themselves with special clothing and equipment.



Can you find the picture that's different?

(Answer on page 15.)



You should never climb a utility pole -- it's dangerous!

YOU must play it safe around electricity, too!

NEVER TOUCH

a switch or anything run by
electricity when your hands are wet
or any part of you is in water.



ALWAYS STAY CLEAR

of power lines. Tell an adult,
or call your electric utility if
you see a fallen line.



CONSERVING ELECTRICITY

is everyone's job.

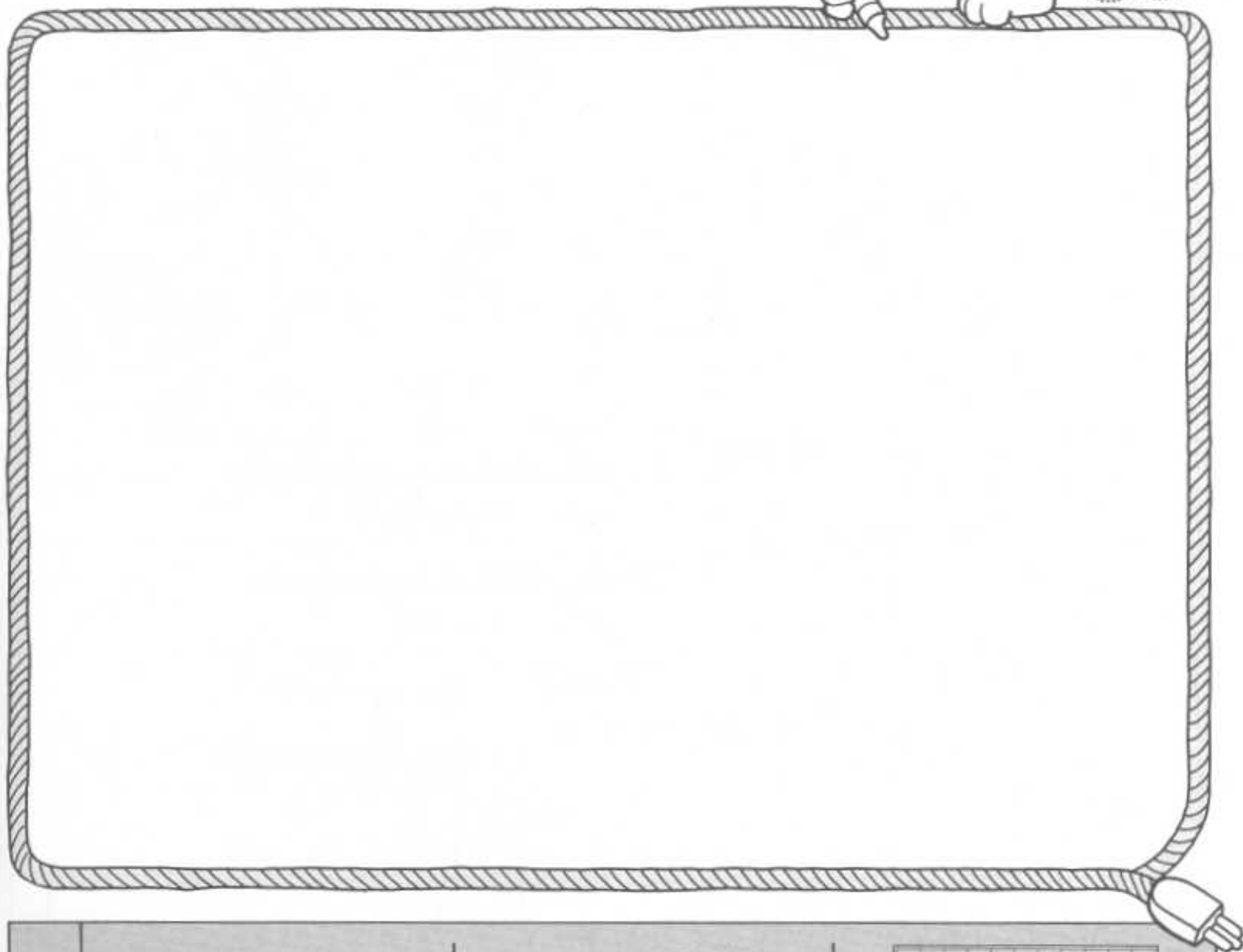
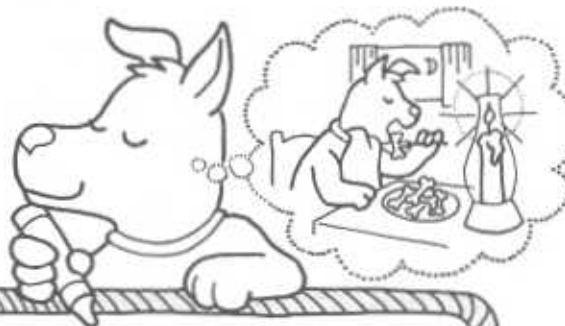


Here's how you can help...



DRAW A PICTURE

of another way you can help to conserve electricity.

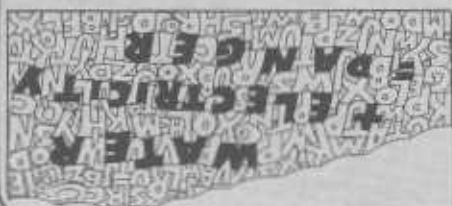


ANSWERS

No. 1 is different (the worker's safety belt is missing).

PAGE 11

PAGE 12



• COAL • OIL • NATURAL GAS

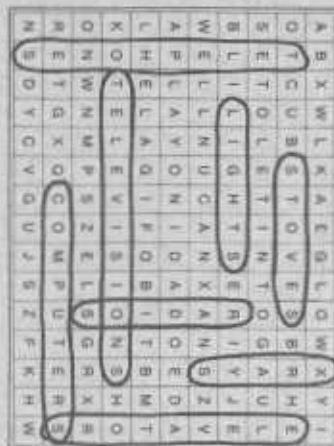
PAGE 4

PAGES 6-7

EVEN THE WIND, THE SUN, HEAT FROM THE EARTH, AND SOME WASTE PRODUCTS CAN HELP MAKE ELECTRICITY.

PAGE 8

This is called "RAISING THE VOLTAGE."



PAGE 3

Soo--
ELECTRICITY
TOPS THE LIST
of our power
sources!

