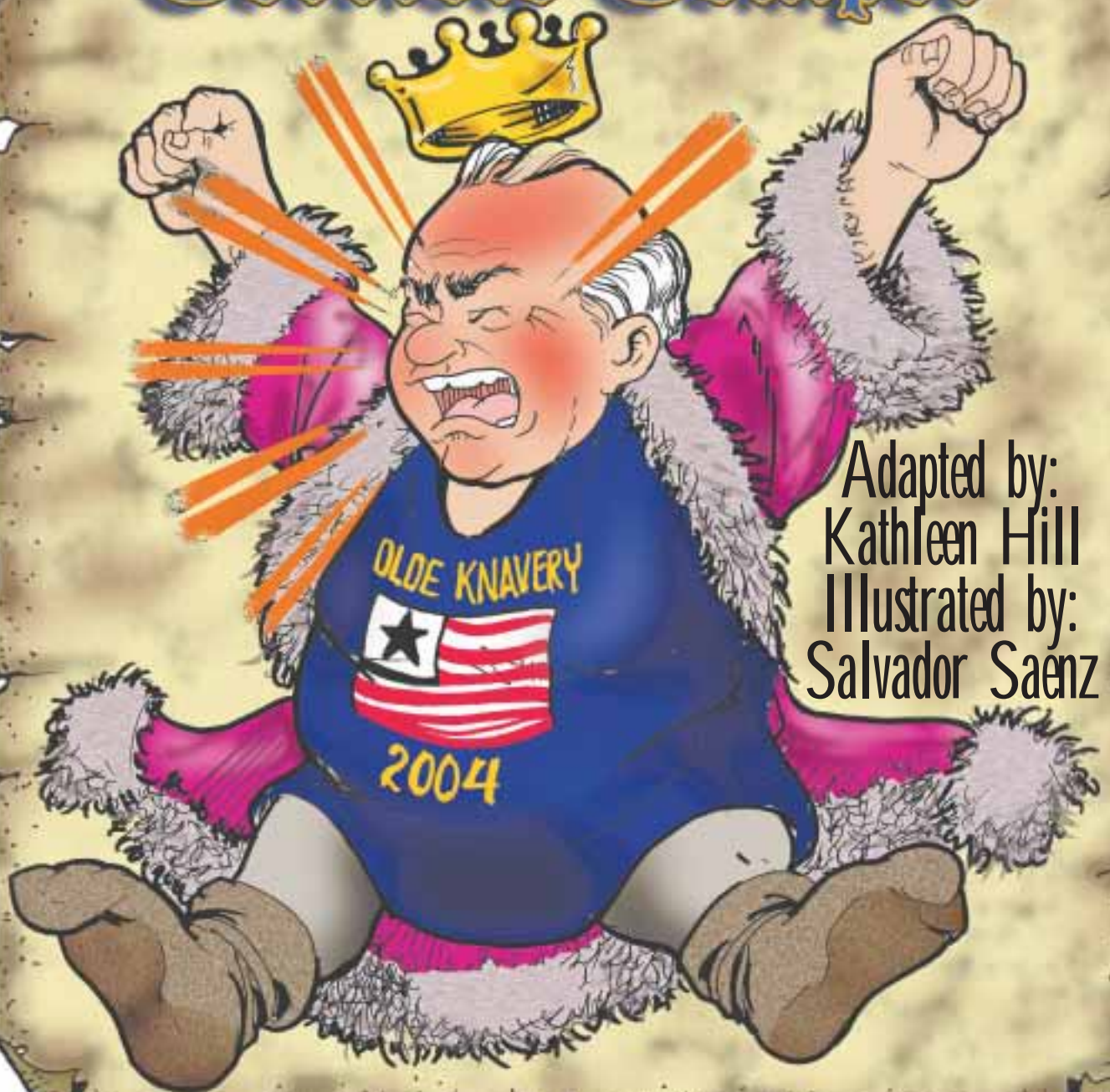


Watt Watchers of Texas

an energy activity book for grades K-2

FEATURING: **The King
with the
Terrible Temper**



Adapted by:
Kathleen Hill
Illustrated by:
Salvador Saenz

Watt Watchers is a free, state-sponsored program to help school districts save energy and money by getting students involved. Students patrol the school looking for empty classrooms with the lights on. They turn out the lights and leave a ticket for the teacher. It may sound trivial but...when the teacher forgets to turn out the lights an 2 extra hours a day, at lunch and after school, for example —it costs the district \$50 every year.



Get your students involved.
Save energy,
save money,
and prevent pollution.
Sign up for a free kit today.

Watt Watchers of Texas
University of Texas at El Paso – Energy Center
P.O. Box 68660
El Paso, Texas 79968

An Energy Activity Book for Grades K-2

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“The King with the Terrible Temper”

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Watt Watchers is sponsored by:

State Energy Conservation Office
Texas Comptroller of Public Accounts
U.S. Department of Energy



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wattwatchers.org

Energy Activity Book

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Section One

The King with the Terrible Temper is a predictable story adapted by Kathleen Hill of the Salem-Keizer Independent School District in Salem, Oregon.

Predictable stories include sound effects and gestures intended to elicit reader involvement. Each time a character is mentioned in the story students make a gesture and sound along with the reader.

The storybook is illustrated by Salvador Saenz with line art suitable for coloring. The storybook may be copied and distributed to your class for use as an individual coloring book that supplements the story. The pages may also be enlarged and used as a flipchart or adapted as a flannel board or pocket folder activity or as an interest center extension activity.

The King with the Terrible Temper



A
Storybook
for
Coloring

Adapted by: Kathleen Hill, Salem-Keizer Schools, Salem, Oregon

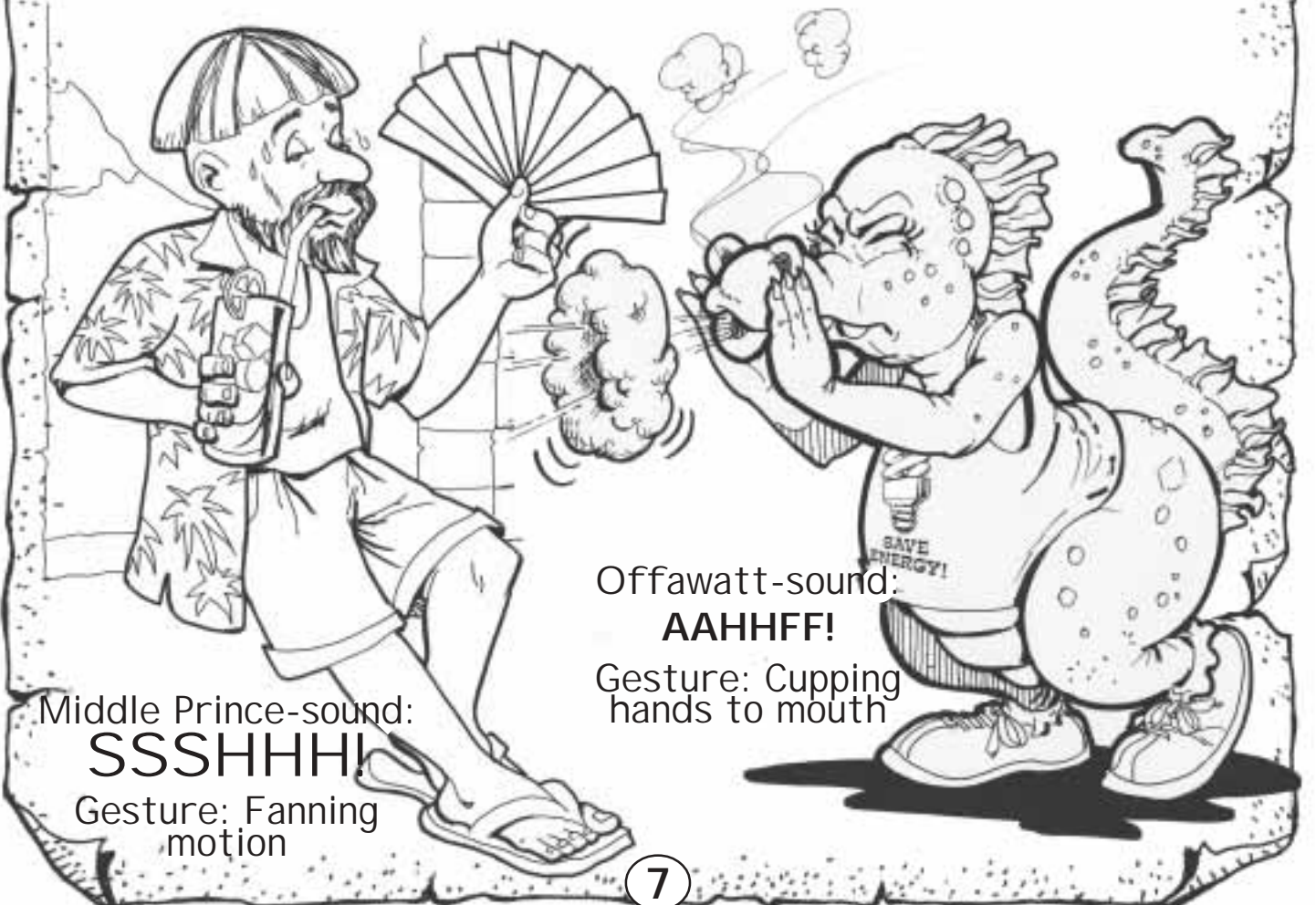
Illustrated by Salvador Saenz

Each character has a sound and gesture. Let your students participate.



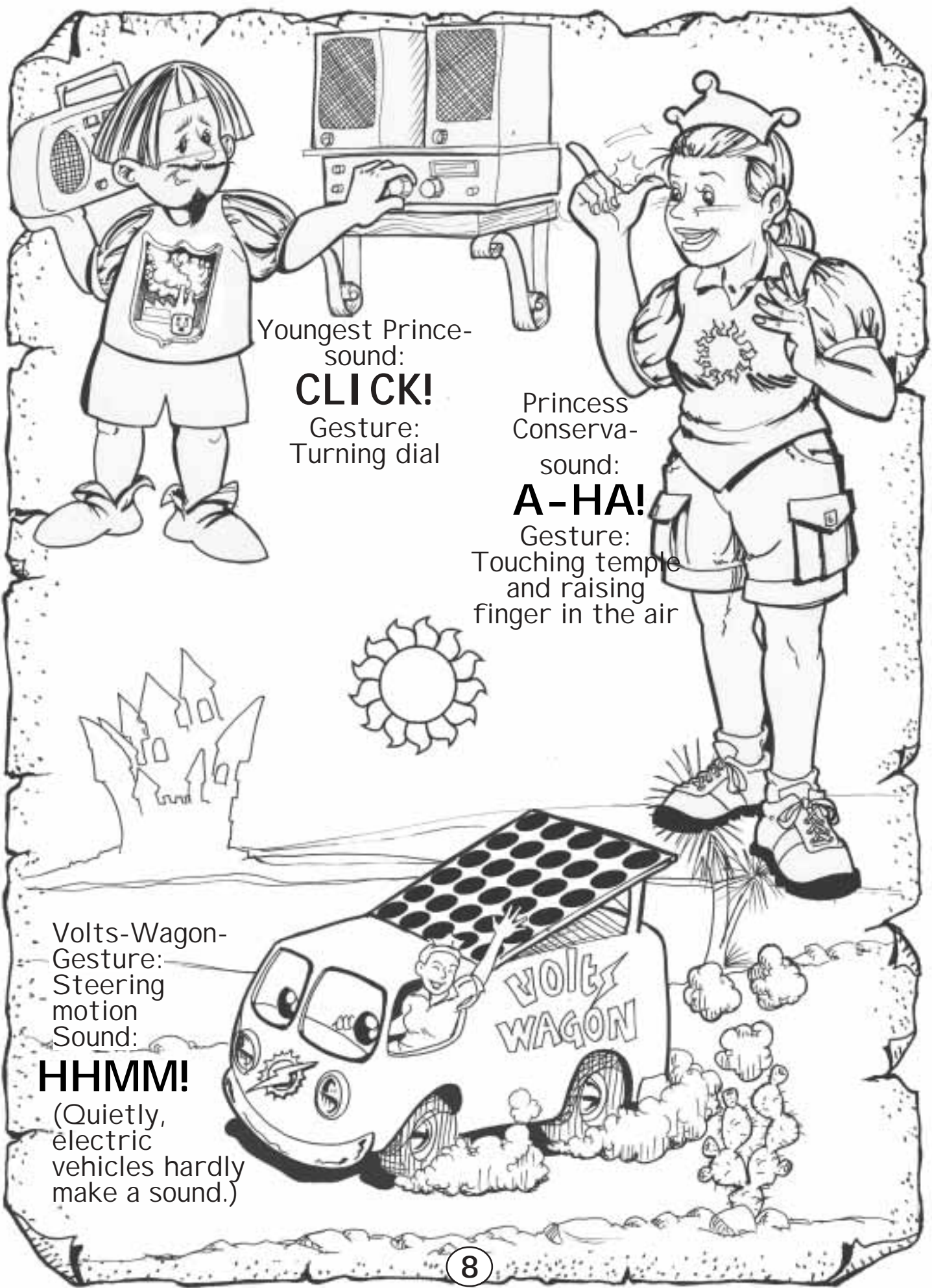
King-sound: **GRR!**
Gesture: Raising clenched fists

Eldest Prince-sound: **BLOOP!**
Gesture: Brushing teeth



Middle Prince-sound:
SSSHHH!
Gesture: Fanning motion

Offawatt-sound:
AAHFFF!
Gesture: Cupping hands to mouth



Youngest Prince-
sound:

CLICK!

Gesture:
Turning dial

Princess
Conserva-
sound:

A-HA!

Gesture:
Touching temple
and raising
finger in the air

Volts-Wagon-

Gesture:
Steering
motion
Sound:

HHMM!

(Quietly,
electric
vehicles hardly
make a sound.)



There once was a King with a terrible temper. (GRRR!) He lived in a **drafty** castle with his 3 **wasteful** sons and one over-worked dragon named Offawatt (AAHHFF!). The King was angry because his sons were so wasteful.

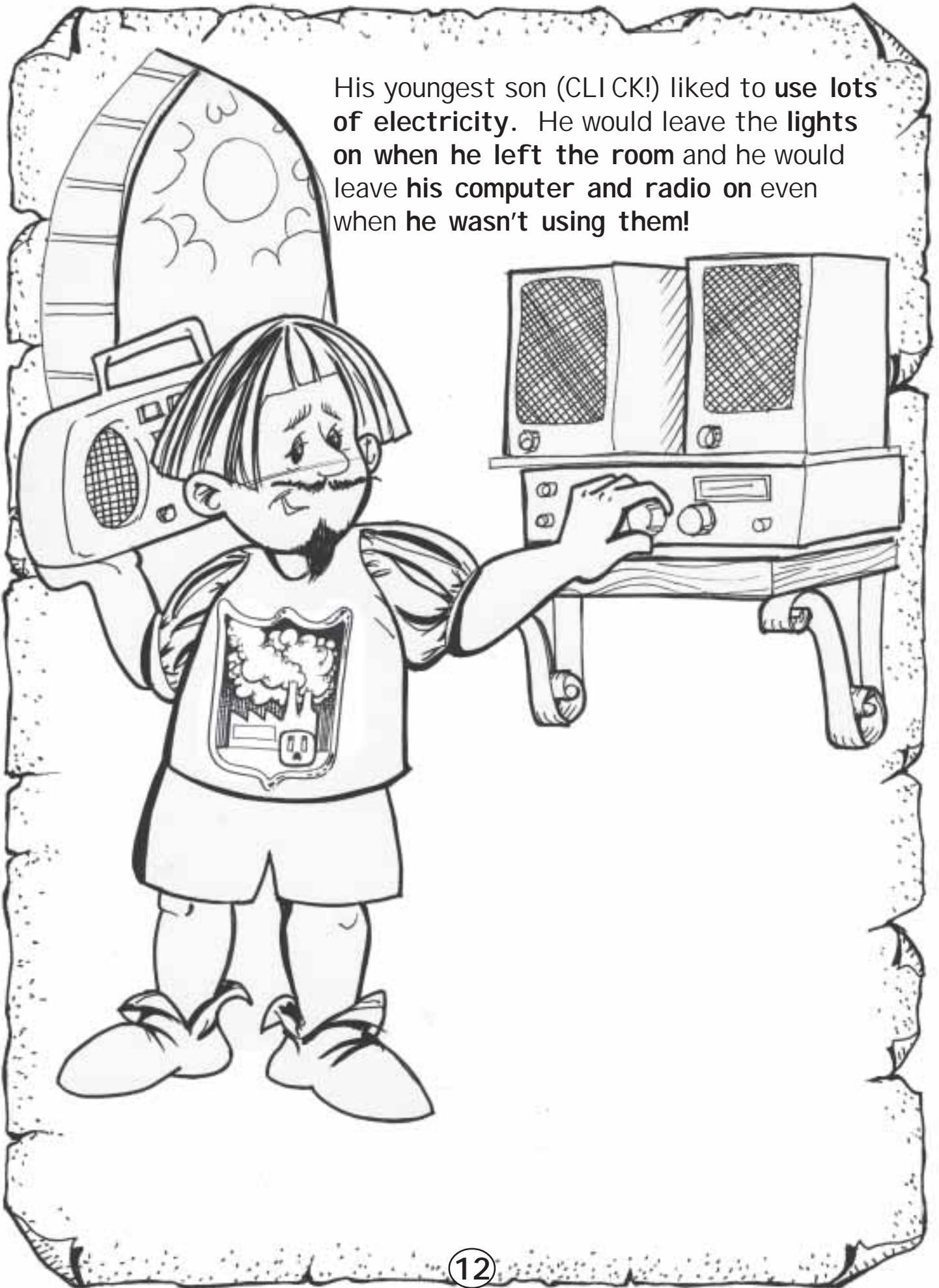


His eldest son liked to use lots of water (**BLOOP!**). He would take **long showers** or let the water run while he brushed his teeth or washed the dishes.

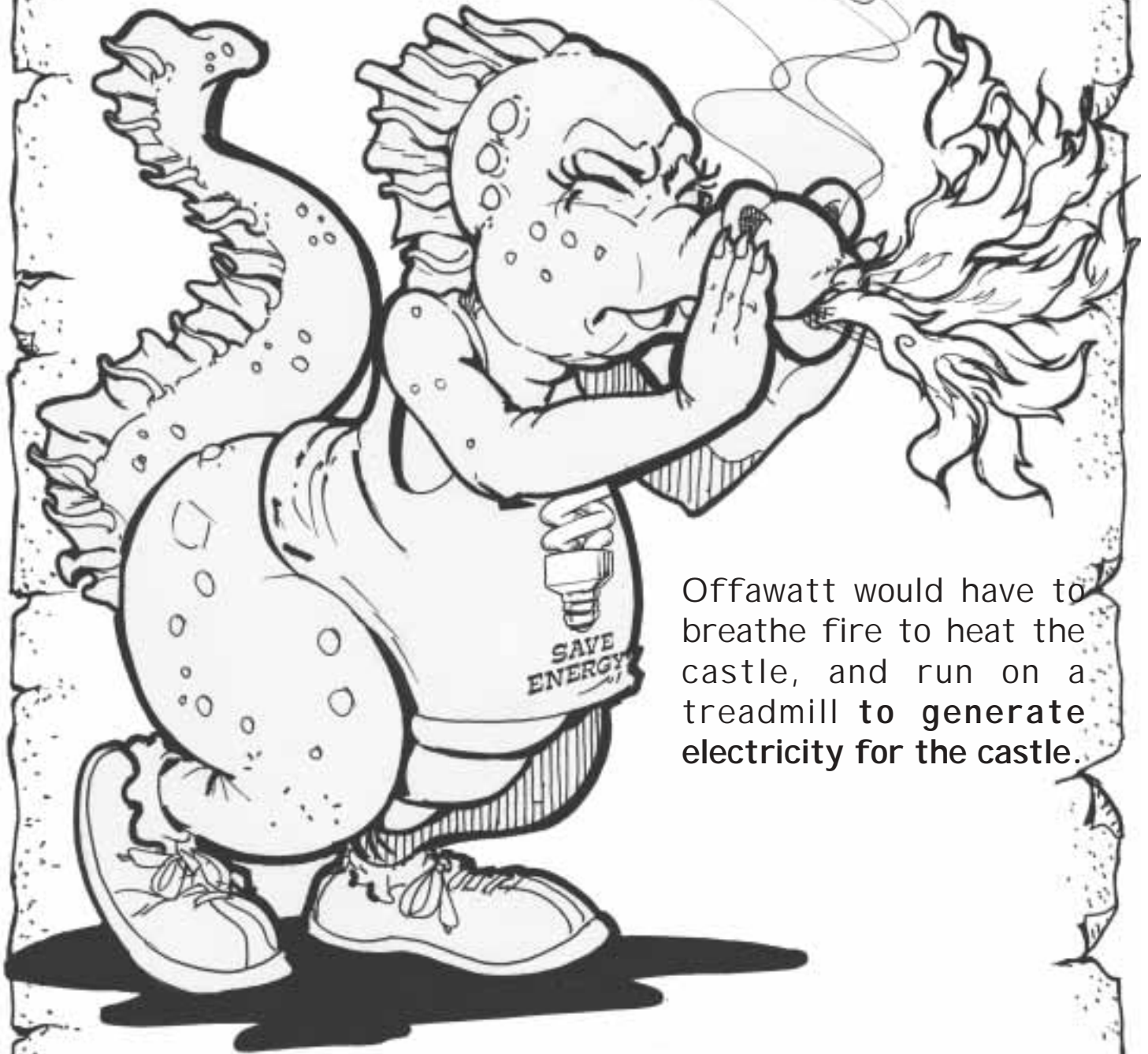


His middle son (**SSSHHH!**) liked to **use lots of heat**. He would wear shorts in the winter and turn up the heat, or he would **leave doors and windows open while the heat was running!**

His youngest son (CLICK!) liked to use lots of electricity. He would leave the lights on when he left the room and he would leave his computer and radio on even when he wasn't using them!



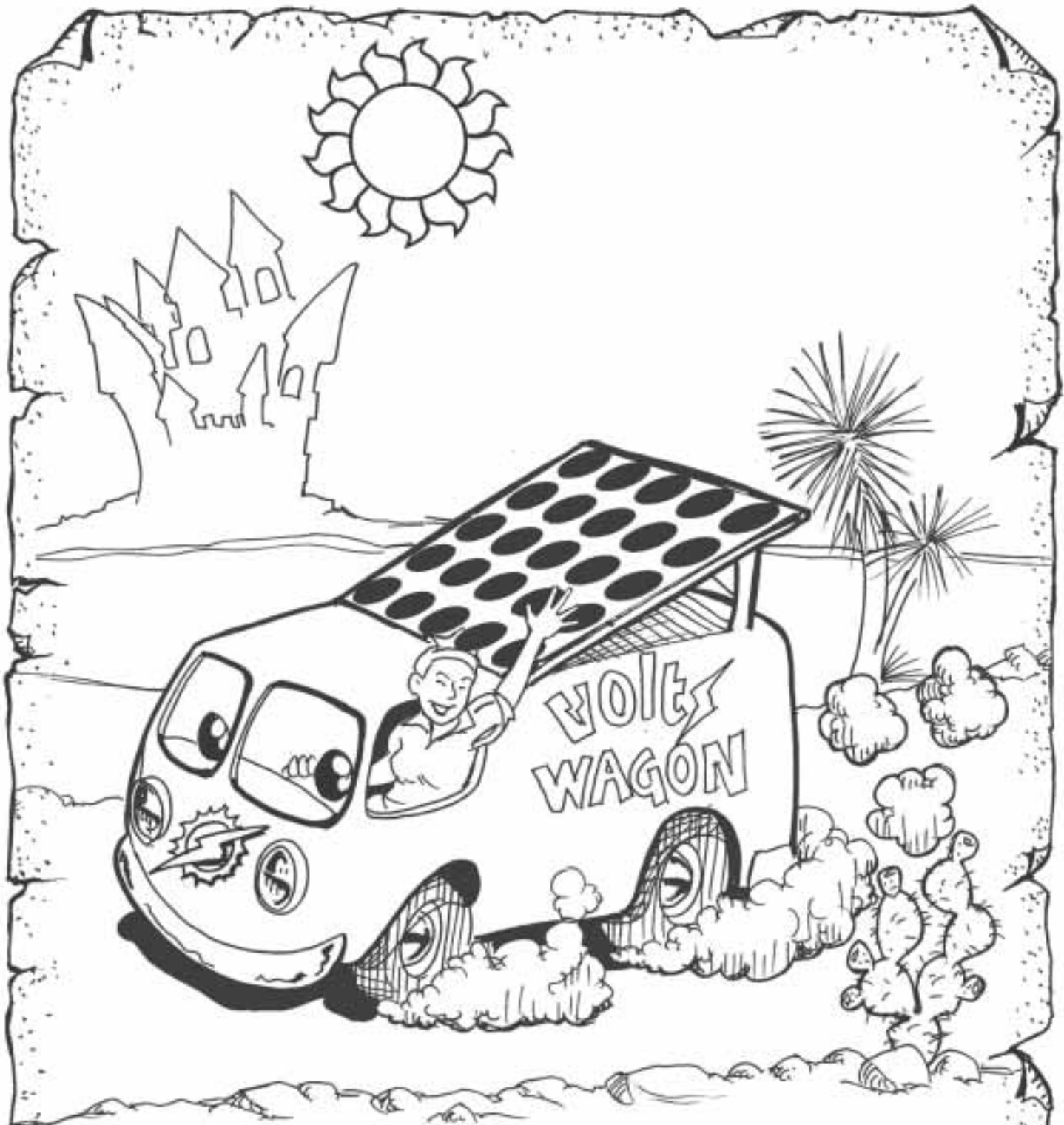
Now this castle was powered by Offawatt, a very sweet, but **over-worked** dragon. (AAHHFF!)



Offawatt would have to breathe fire to heat the castle, and run on a treadmill to **generate** electricity for the castle.



When she would get a break, she would go to the moat to relax in the water, but there was **less and less water** each day because the eldest prince (**BLOOP!**) was **wasting** so much of it.



One cold winter day along came beautiful Princess Conserva (**A-HA!**) driving her **solar-powered** Volts-wagon (**STEERING MOTION**). To spread the word about energy efficiency across the land.



"I have come to tell you
about saving energy."

The king hoped the
princess would marry one
of his wasteful sons and
change his ways.

First the King with the terrible temper (**GRR!**) called his eldest son (**BLOOP!**) into the throne room. He entered the room dripping wet from one of his long showers.

"I JUST RAN OUT OF WATER!"

he shouted as he entered the room.

Offawatt (**AAHFFF!**) looked sadly out the window at the moat which had run dry.

The princess said to the oldest son, "If only you had taken shorter showers and turned off the faucet while brushing your teeth!"



Then, the King with the terrible temper (**GRRR!**) summoned his second son (**SSSHH!**) to the throne room. He came into the throne room wearing shorts, flip-flops, and a tank top.



**"CAN'T
SOMEONE
TURN UP
THE HEAT?"**

HEY, YOU, DRAGON,
MAKE MORE FIRE!"

Offawatt
the dragon
(**AAHHFF!**)
breathed harder
to make more fire.

The princess said
to the second son,
"Dress for the
weather and
repair air leaks!
You'll be warmer
in the winter and
cooler in the
summer!"



Finally, the King with the terrible temper (GRRR!) called for his youngest son (CLICK!).

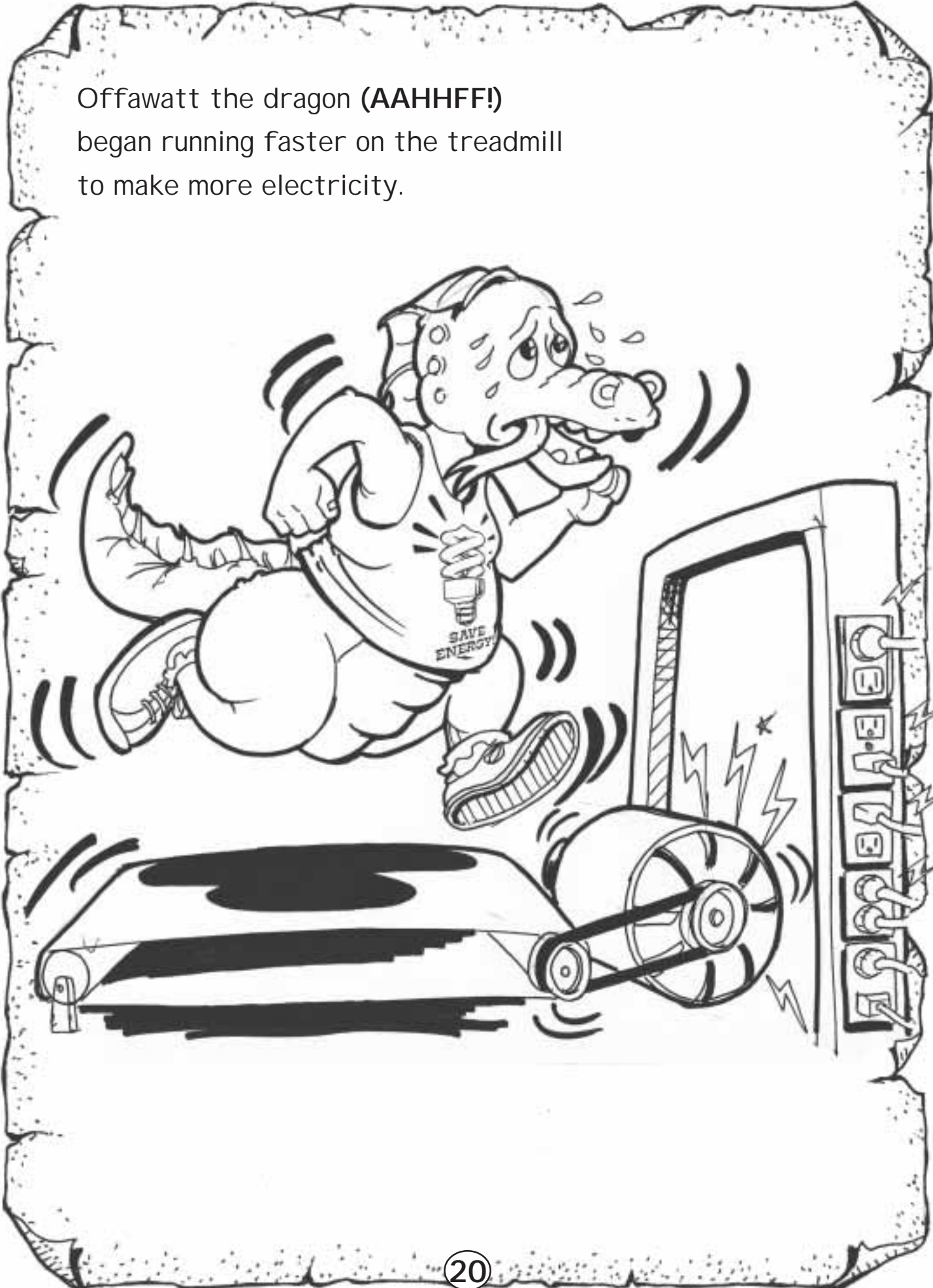


You could hear his stereo and video game still playing in the distance. He turned on all the lights in the room when he arrived.

The princess said to the youngest son, "Turn it off when no one is using it!"



Offawatt the dragon (AAHHFF!) began running faster on the treadmill to make more electricity.



A cartoon illustration of a girl named Princess Conserva. She is wearing a crown, a t-shirt with a sun and the words "go Solar", and shorts. She is pointing her finger towards the right.


Princess Conserva (A-HA!) said:

➤ "I do not want to marry your eldest son (BLOOP!) He wastes too much water.

➤ I do not want to marry your middle son (SSSHHH!) He wastes heat.

➤ I do not want to marry your youngest son (CLICK!). He wastes electricity.

I must continue to tell everyone across the land about saving energy. GOODBYE!

A cartoon illustration of a girl named Offawatt. She is wearing a t-shirt with a lightbulb and the words "SAVE ENERGY". She is kneeling on the ground, looking up with a surprised expression, her hands raised. She has a large, round, spotted object on her back.

Offawatt (AAHHFF!) said, "Wait for me, I'm coming with you. Everyone needs to learn how to save energy."



Princess Conserva (**A-HA!**) drove away in the Volts-wagon. (**STEERING MOTION**) Offawatt (**AAHHFF!**) hopped in and they sped off.

This angered the King with the terrible temper (GRRR!).

STOP! COME BACK! IT'S DARK AND WE'RE THIRSTY AND COLD! AND WHO WILL MAKE OUR ENERGY?!!



The King with the Terrible temper and his 3 wasteful sons have a lot to think about...

The King with the terrible temper
(GRRR!) ordered his sons to stop
Princess Conserva and Offawatt,

but the eldest son **(BLOOP!)** was
turning on faucets trying to get
water...





...and the youngest son (CLICK!) was staring at his dark computer screen wondering what to do next.

The middle son (SSSHHH!) was shivering in a corner since there was no heat...



Princess Conserva (A-HA!)
and Offawatt (AAHHFF!) rode off
in the Volts-wagon (STEERING MOTION!) to tell
everyone how to save energy and live happily ever after!

Section 2

Kindergarten

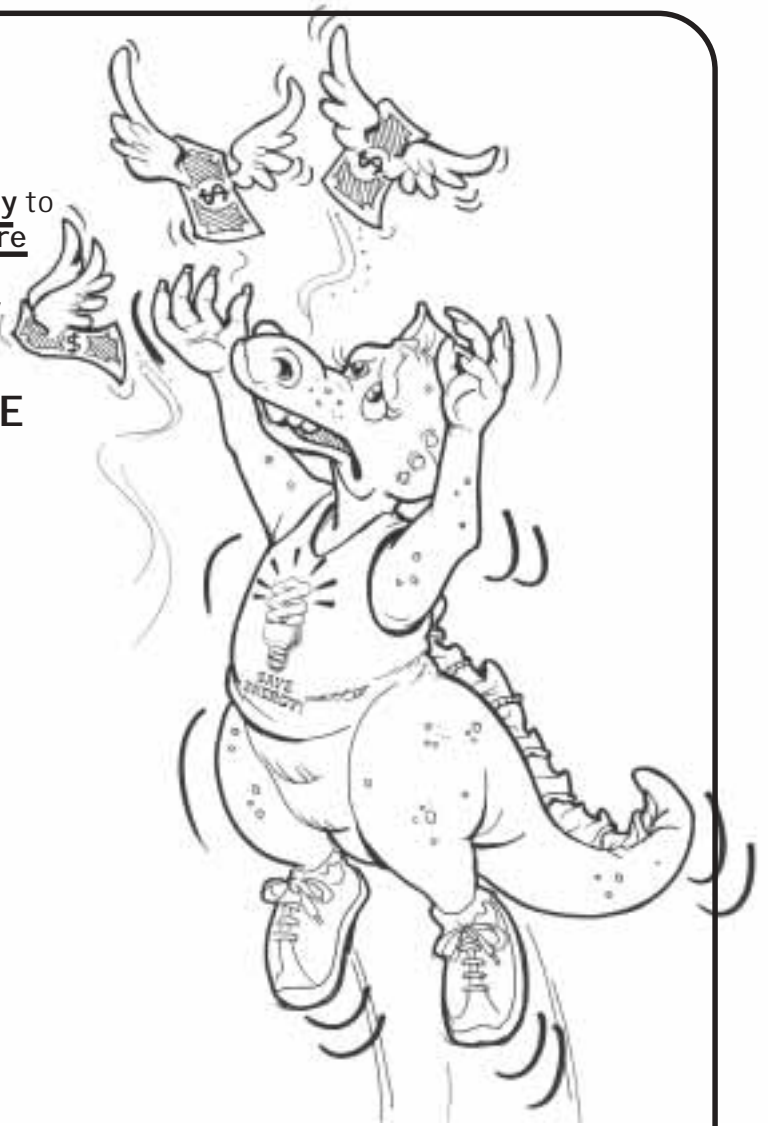
Energy

Activities



3 Good Reasons to Save Energy

First, saving energy means saving money. We pay to heat and cool our homes and schools. The more energy we waste, the more money we waste. So, wasting energy is just like burning a stack of money, or letting it fly away.



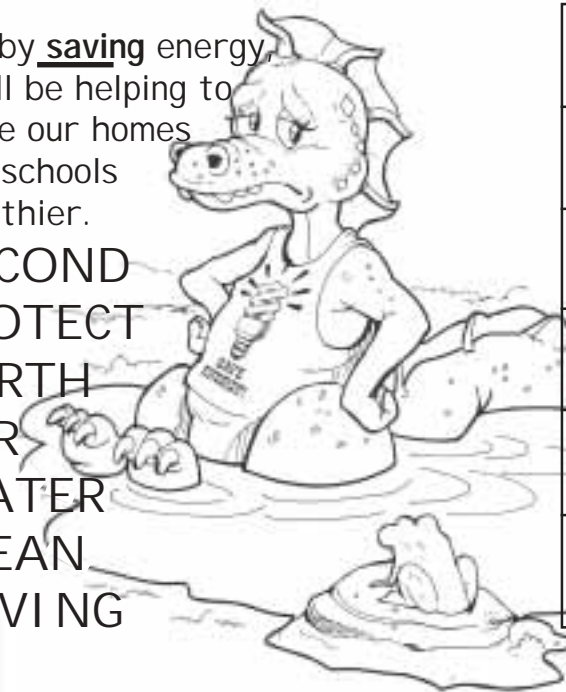
FIRST PAY WASTE
ENERGY HEAT
MONEY MORE

| | | | | | |
|---|---|---|---|---|---|
| M | O | N | E | Y | C |
| O | M | Y | F | P | P |
| R | T | D | I | L | A |
| E | N | E | R | G | Y |
| X | W | A | S | T | E |
| H | E | A | T | Q | Z |

The second reason we should all save energy is to protect the earth and keep our air and water clean. The less energy we use, the better off our land, air and water will be.

So, by saving energy, you'll be helping to make our homes and schools healthier.

SECOND
PROTECT
EARTH
AIR
WATER
CLEAN
SAVING

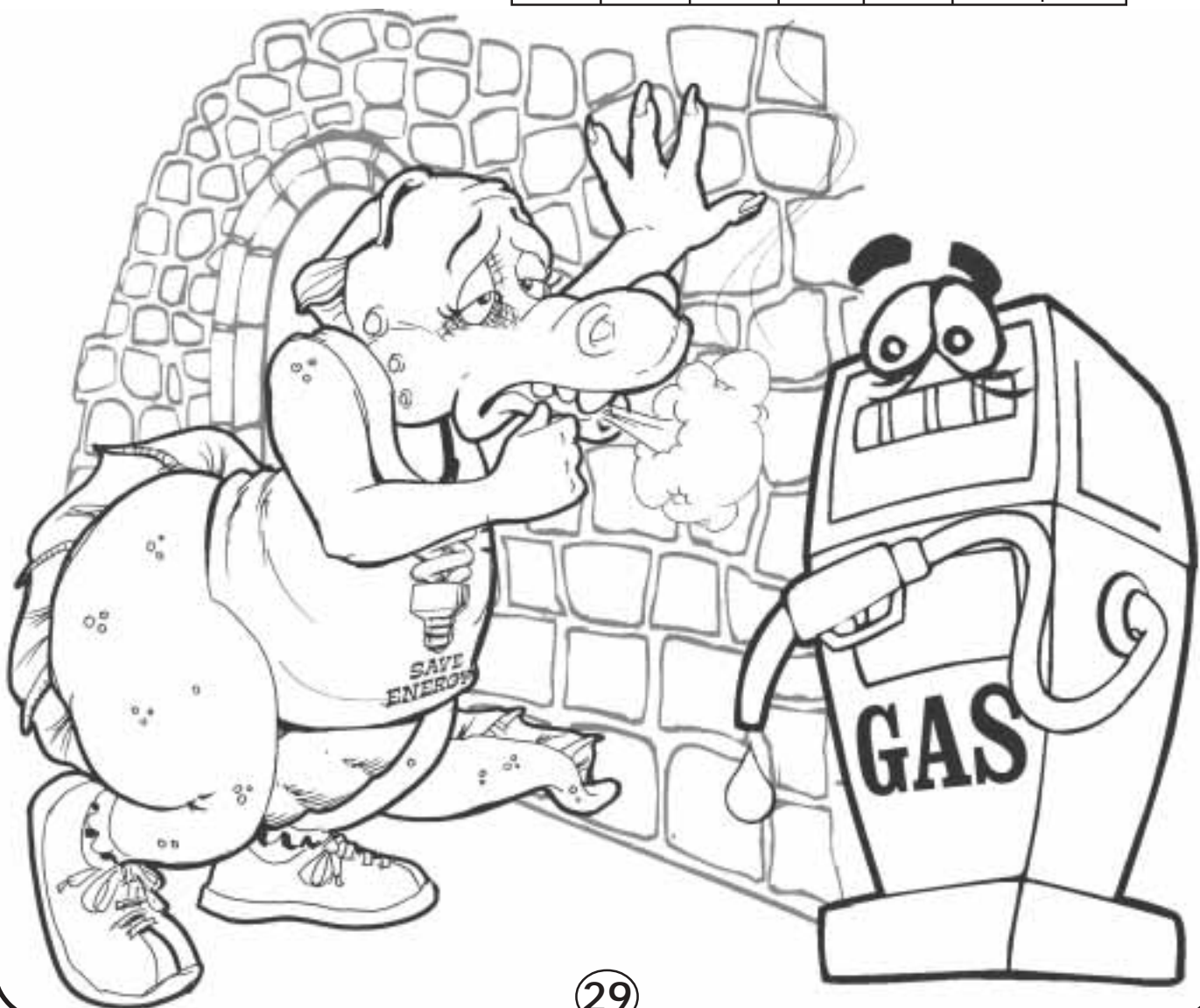


| | | | | | | |
|---|---|---|---|---|---|---|
| P | R | O | T | E | C | T |
| E | A | R | T | H | L | D |
| X | T | W | A | T | E | R |
| P | A | I | R | D | A | L |
| B | S | A | V | I | N | G |
| S | E | C | O | N | D | V |

Third, our energy, like oil, won't last forever. When it is used up it cannot be made again. So all of us must be careful to make sure that our fuel supply lasts longer. Not wasting energy is a good way to protect our earth.

THIRD
OIL
CAREFUL
FUEL
SUPPLY
LONGER

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

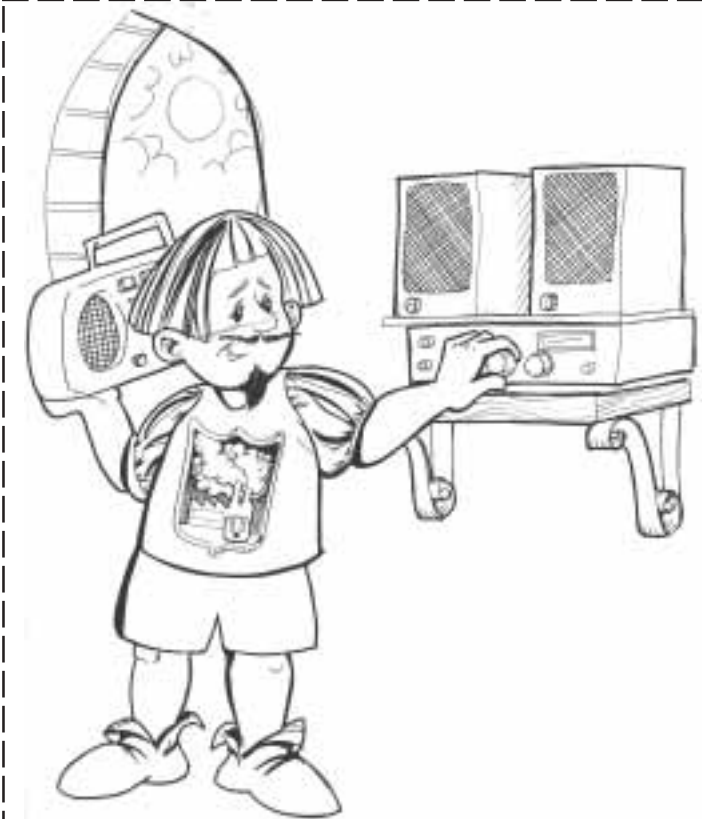


The Energy We Use

Some things need energy to run. Other things can be used without buying power to run them. Discuss what uses energy, types of energy, and the consequences of using energy (pollution and cost for example).

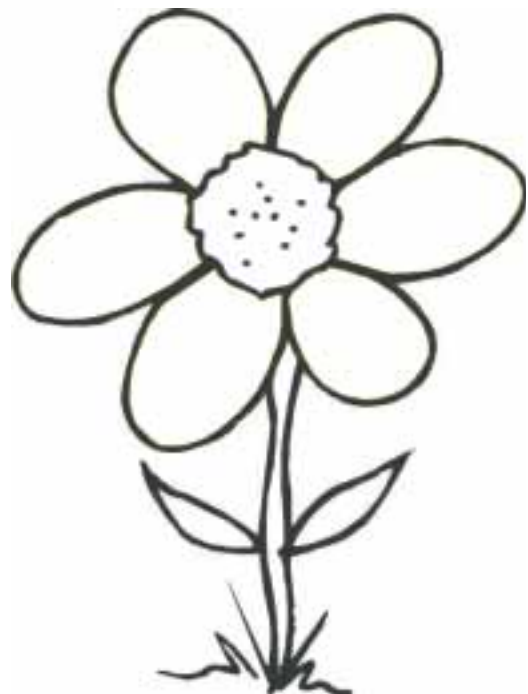
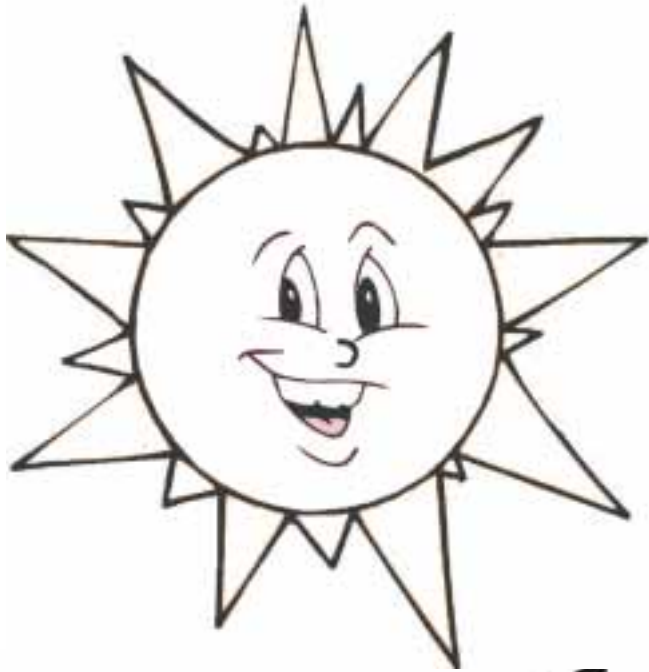
Color the pictures. Cut out and paste on construction paper. Cut apart into squares. Students can play a memory game by matching pictures. Alternative uses include "go fish"; group activity -teacher asks students to hold up a picture that uses energy; deskwork- students make picture graph with energy using and non-energy using pictures. Giving each a rubber band and showing them how to wrap and twist it around the cards provides an additional challenge for the students.





Energy from the Sun

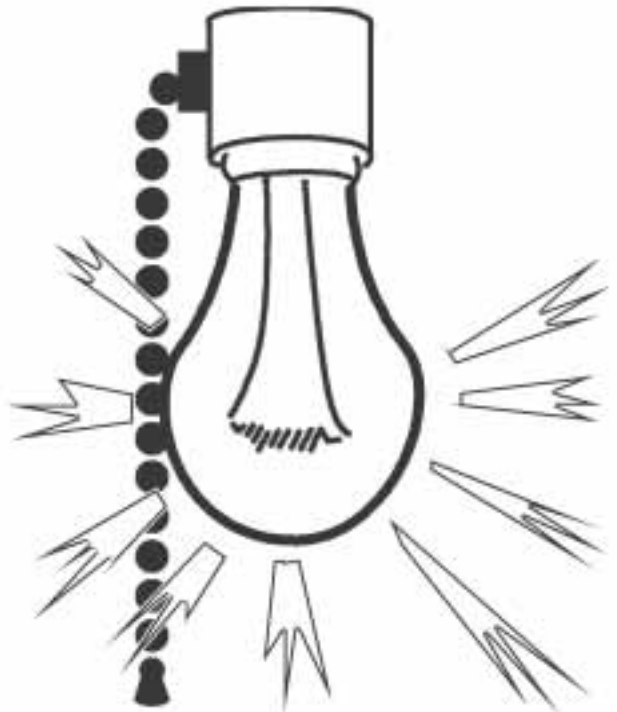
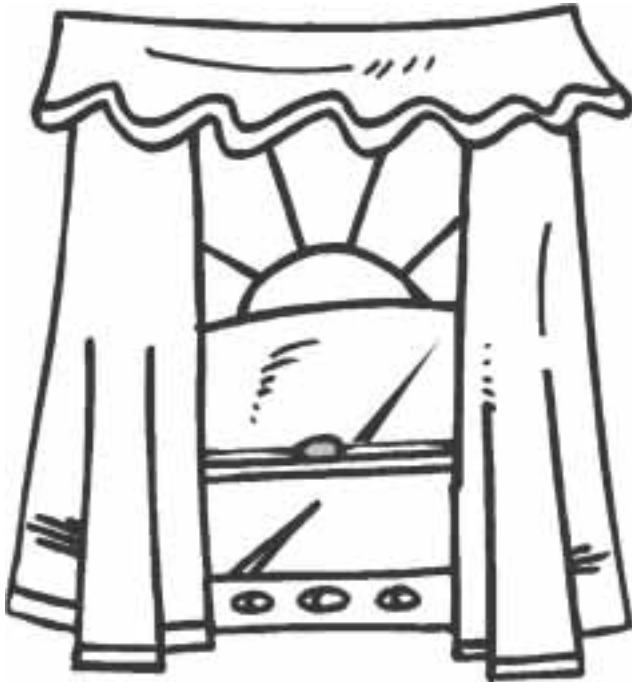
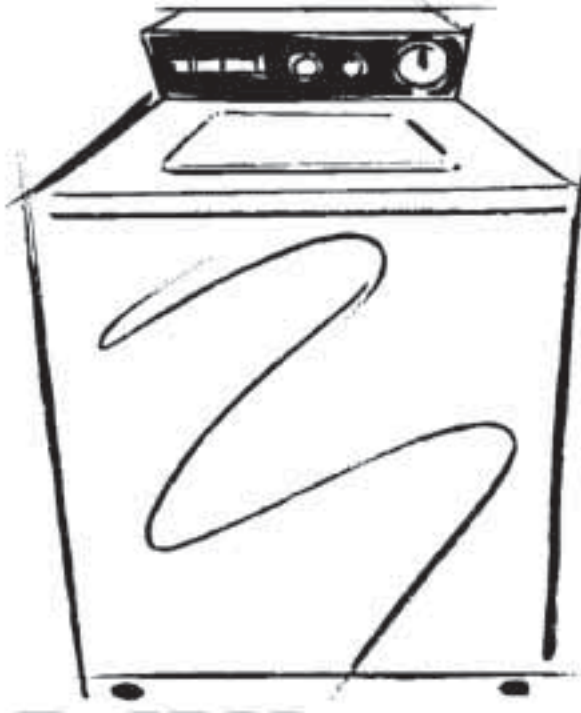
Color the pictures below - they all use energy from the Sun to grow.



Energy Saving Habits

Cut the cards and sort them into 2 groups. One group uses more energy than the other group.

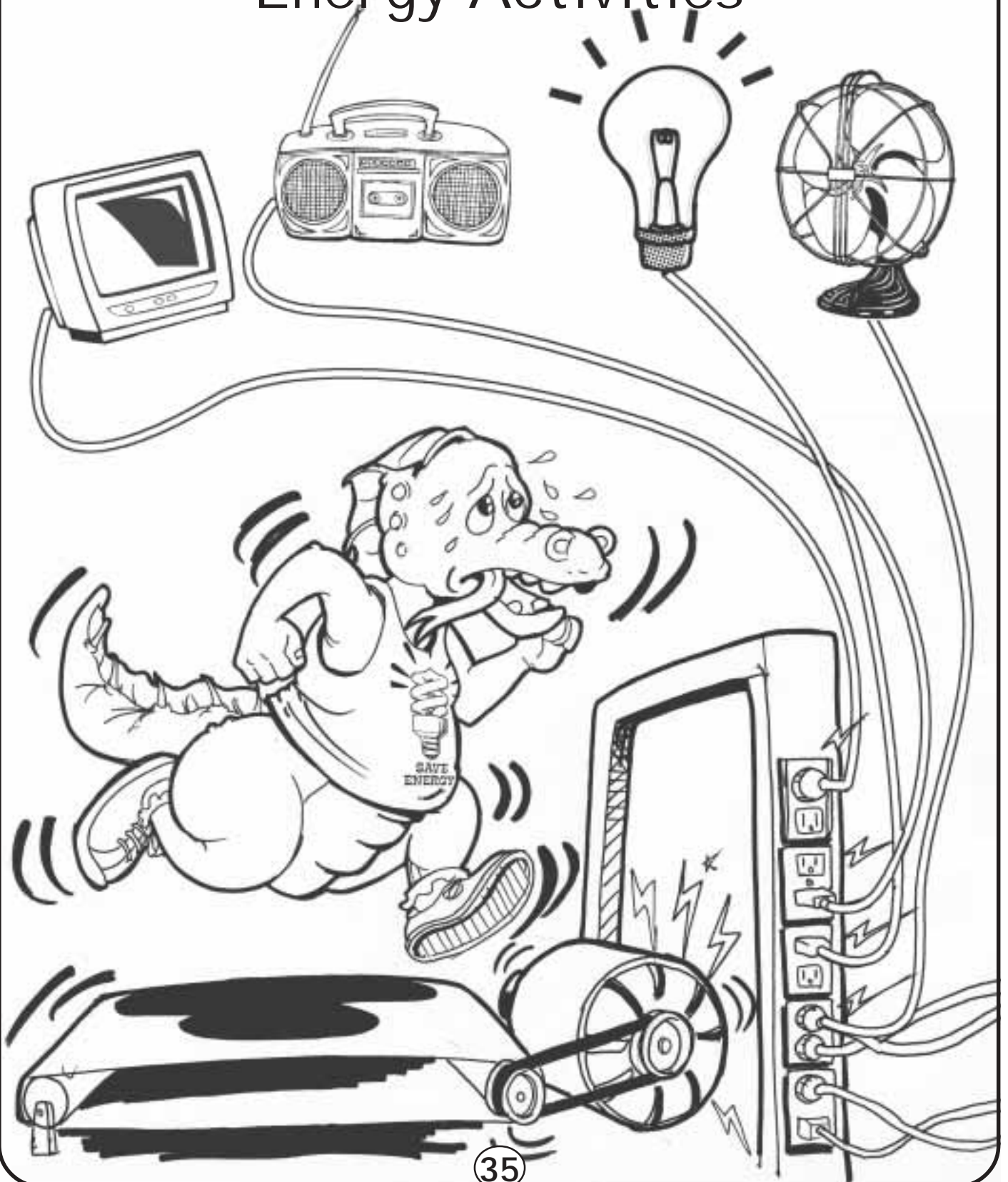




Section 3

1st Grade

Energy Activities



An energy fact for you

11 = using

10 = electricity

6 = will

13 = pollution

9 = prevent

7 = less

12 = money

5 = and

8 = help

4 = save

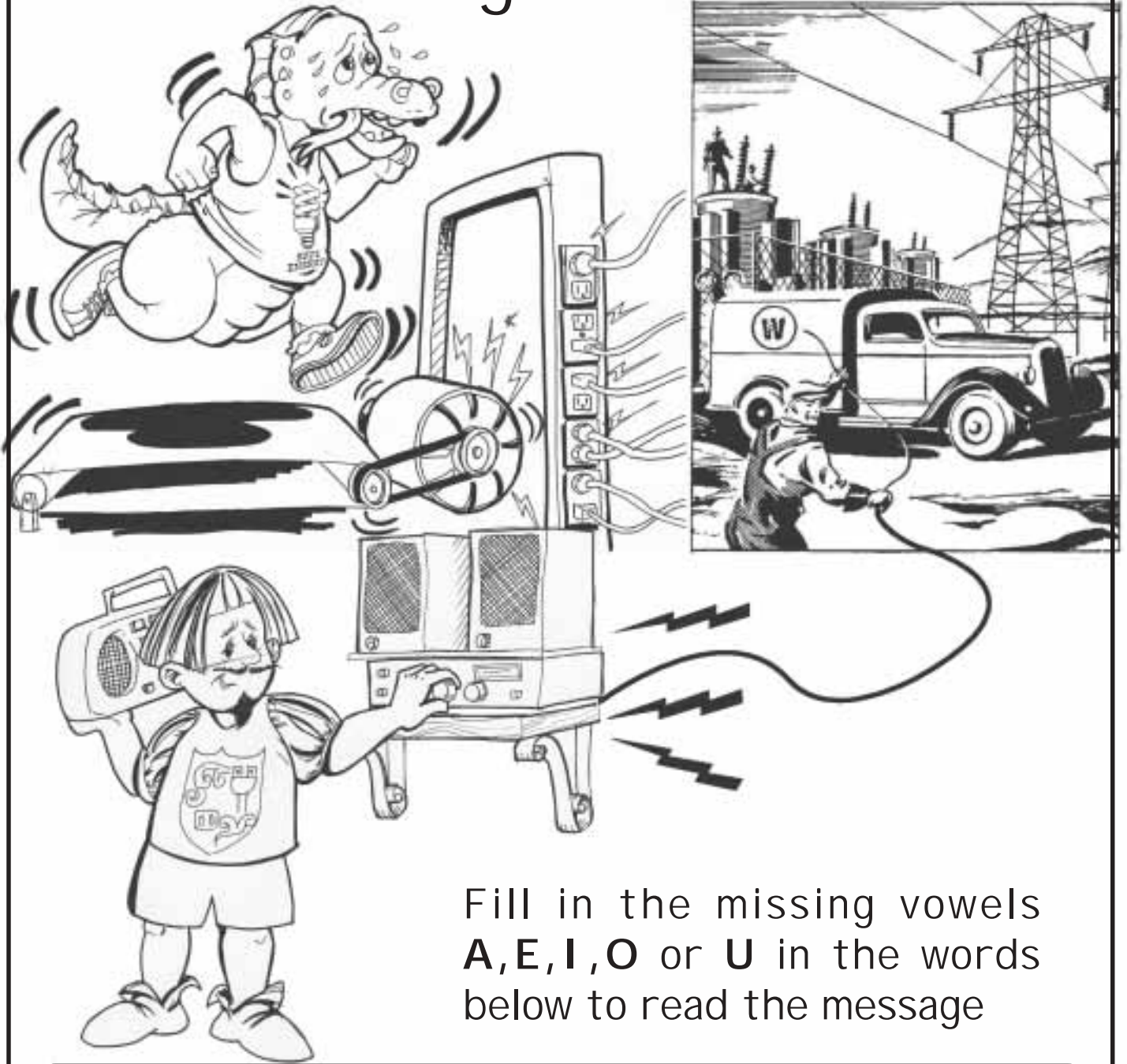
$5+6=$ _____ $2+5=$ _____ $7+3=$ _____ $1+5=$ _____

$2+2=$ _____ $9+3=$ _____ $3+2=$ _____

$4+4=$ _____ $6+3=$ _____ $7+6=$ _____

Write your Energy Fact here:

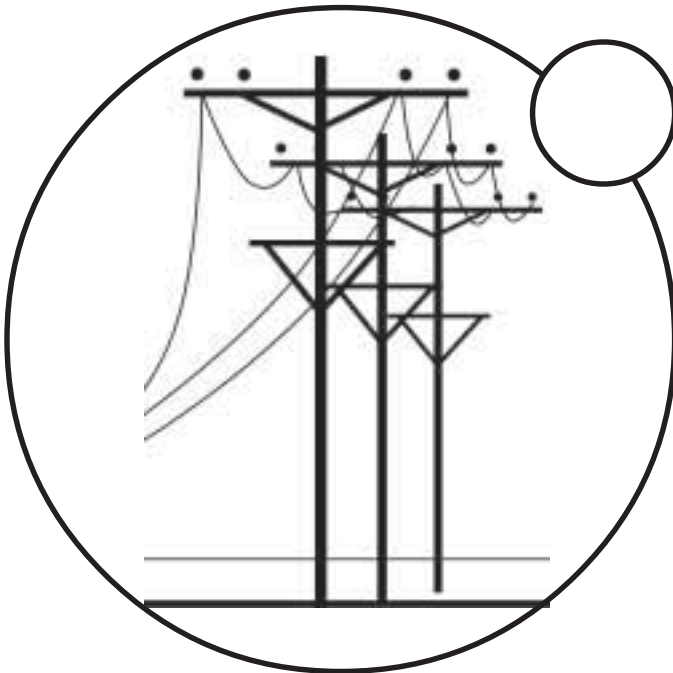
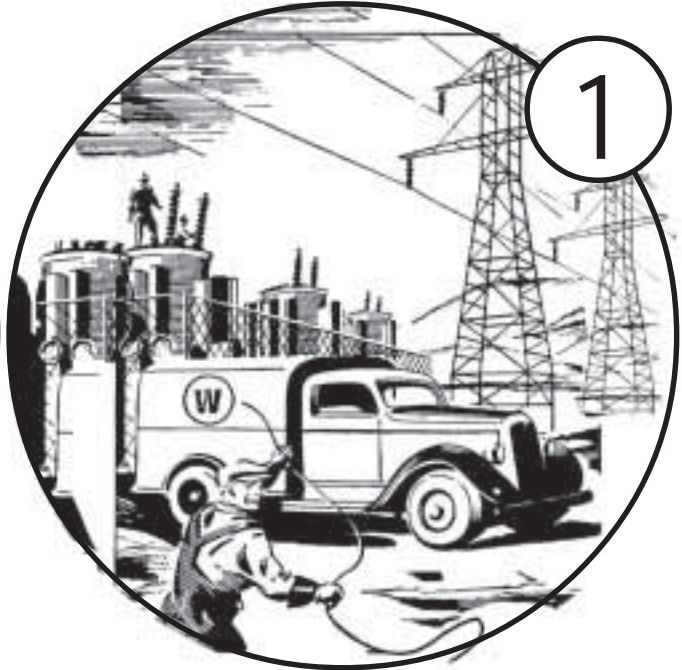
Power generation



Fill in the missing vowels
A, E, I, O or **U** in the words
below to read the message

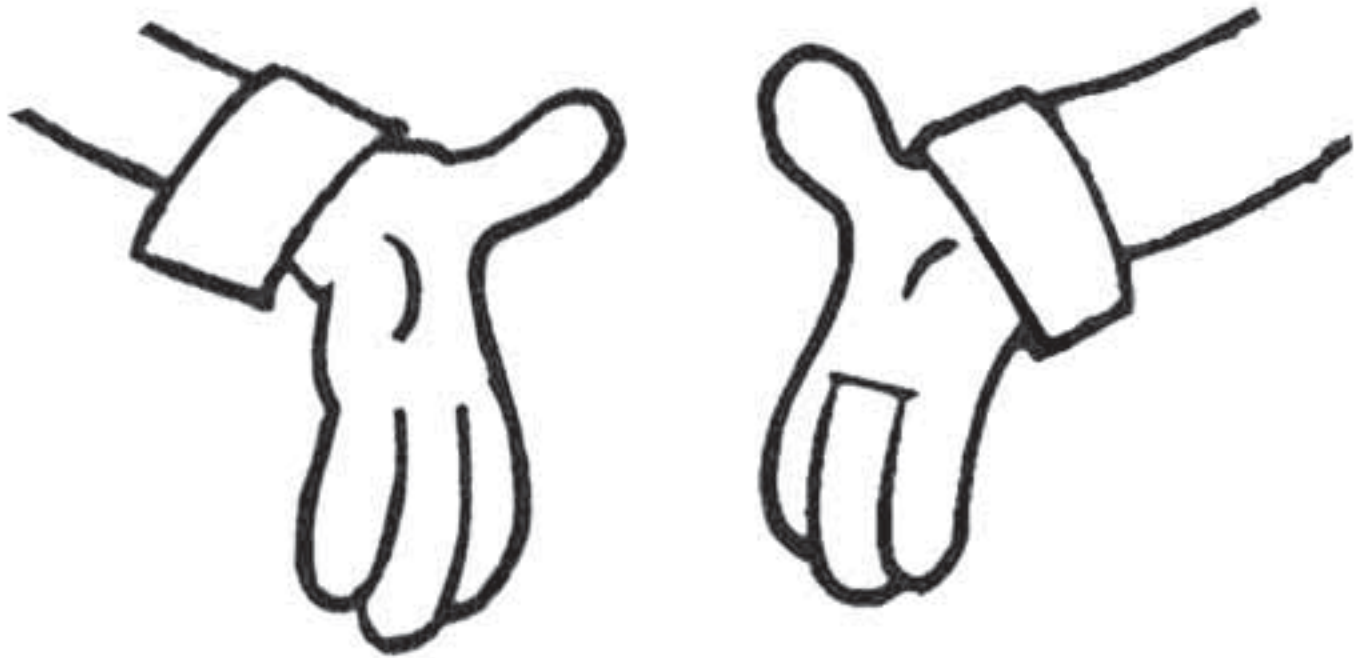
EL_CTR_C_TY _S PROD_C_D IN
P_W_R PL_NTS _ND S_NT T_ _UR
H_MES THR_ _GH W_RES.
_L_CTR_C_TY L_GHTS _P O_R
H_MES!

HOW DOES ELECTRICITY GET TO YOUR HOME?

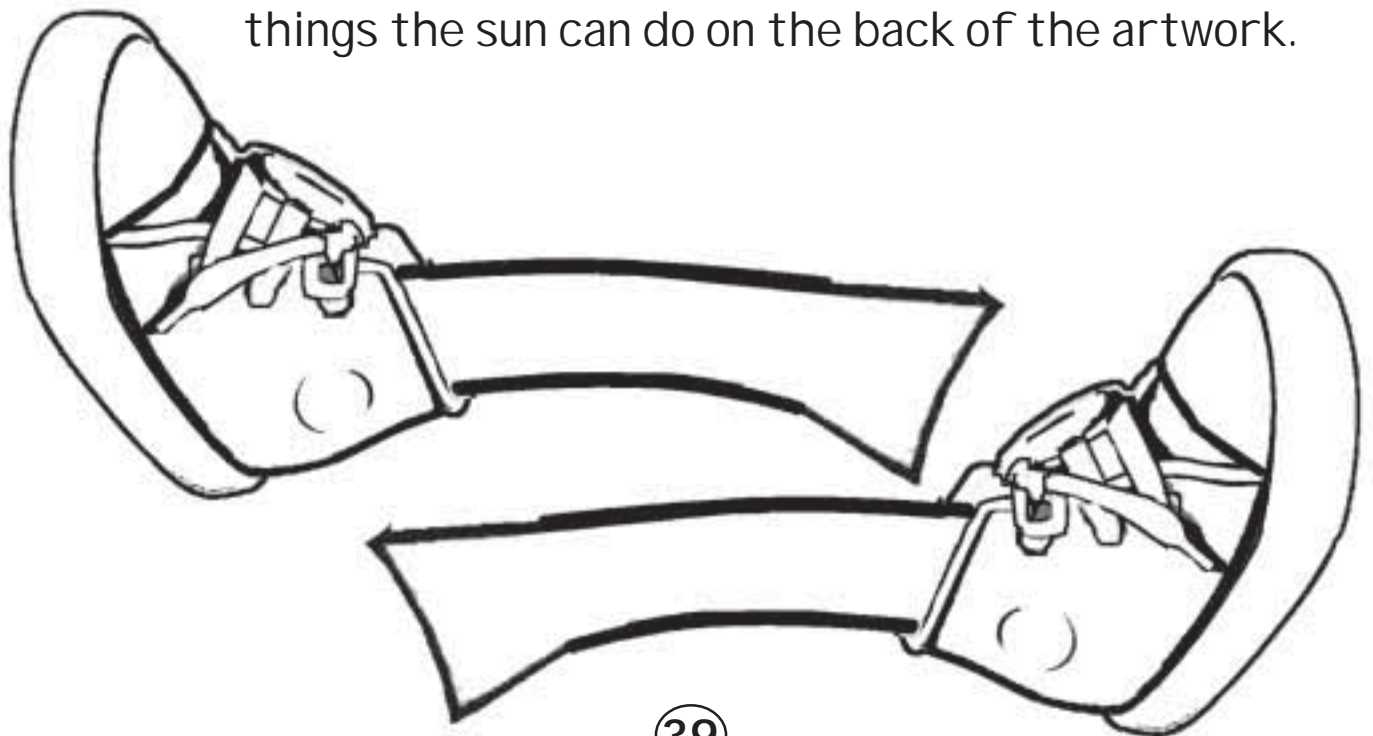


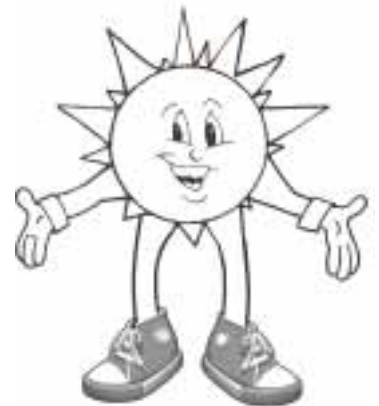
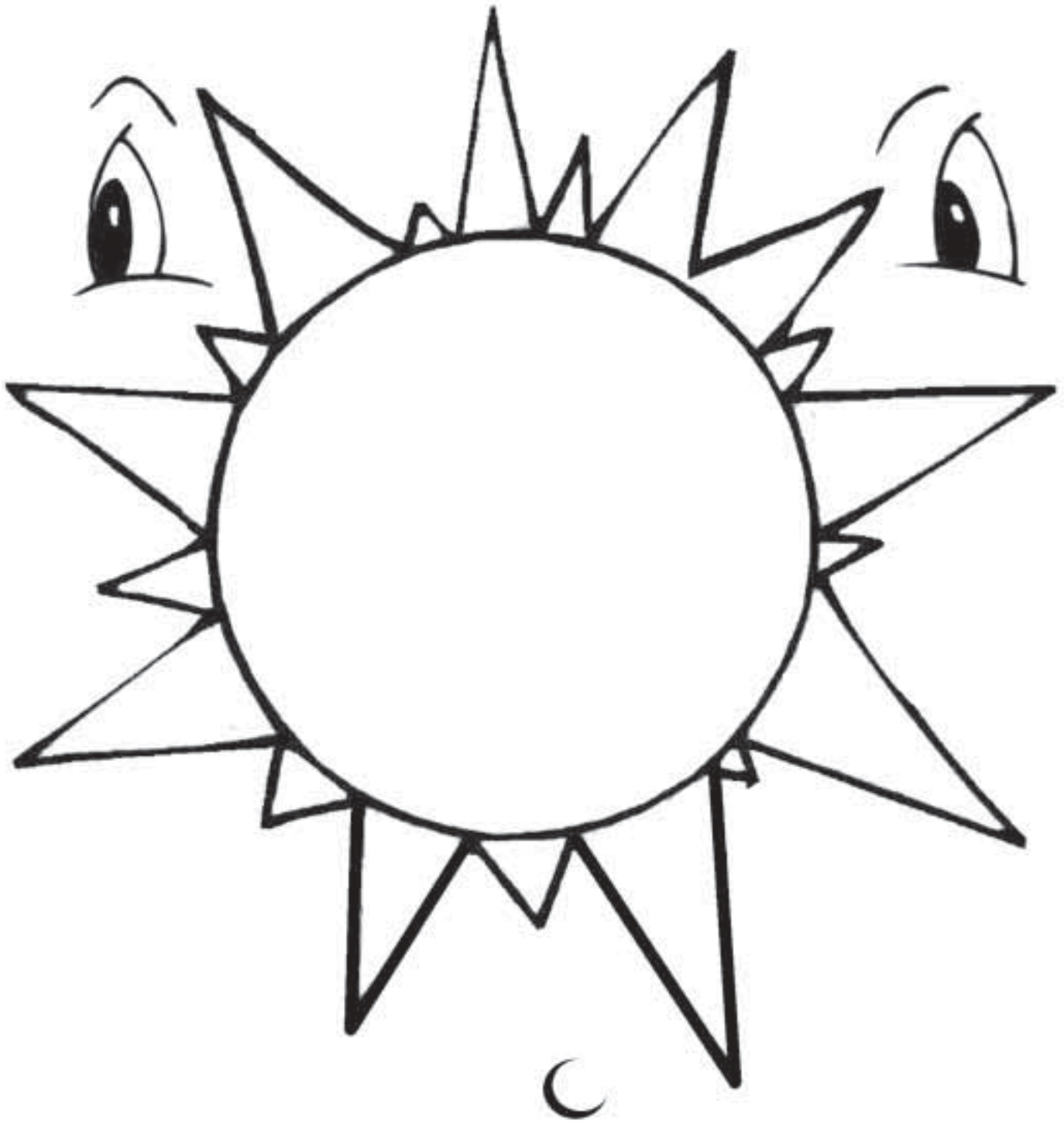
Show the path of electricity-cut out the circles and paste them on a separate sheet in the order that electricity travels to you inside your home.

Sunny the Student

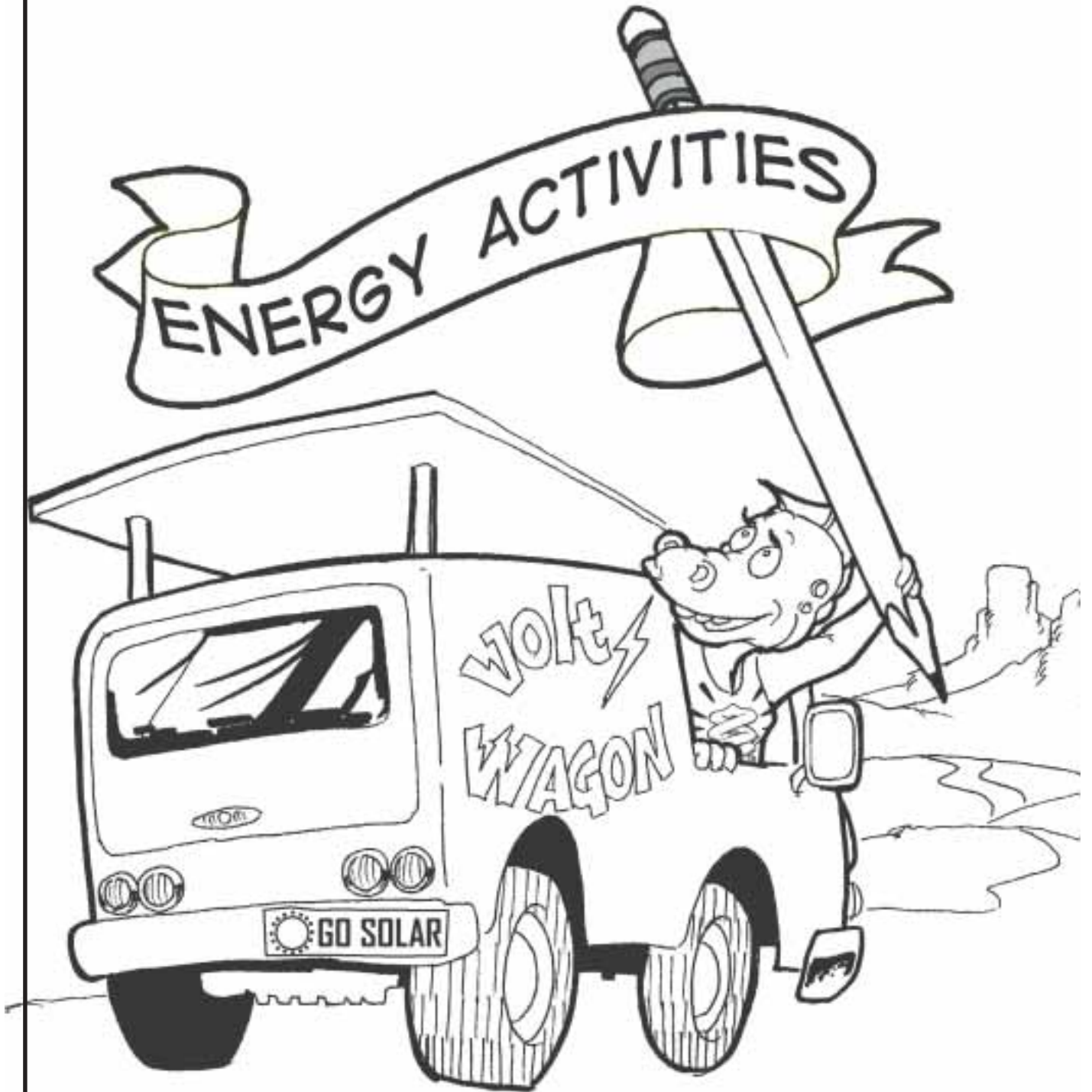


Cut out the parts and paste onto the sun shape. Alternative activities include: making arms and legs of accordion fold construction paper; tracing around each child's hands; using freehand to draw shoes, eyes, etc. Have students write several things the sun can do on the back of the artwork.





Section 4
Second Grade



Energy Word Find

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

CONSERVE
ELECTRICITY
ENERGY
ENVIRONMENT
FUELCELL
HYDROPOWER
POLLUTE
SOLAR
WATER
WIND
WORK



WHAT IS ENERGY?

Unscramble the words below. On a separate sheet of paper, write a complete sentence using each word. You may use more than one vocabulary word in your sentence.

EGRENY _____

ARLSO _____

IDWN _____

ROWK _____

TAREW _____

PEROWDROHY _____

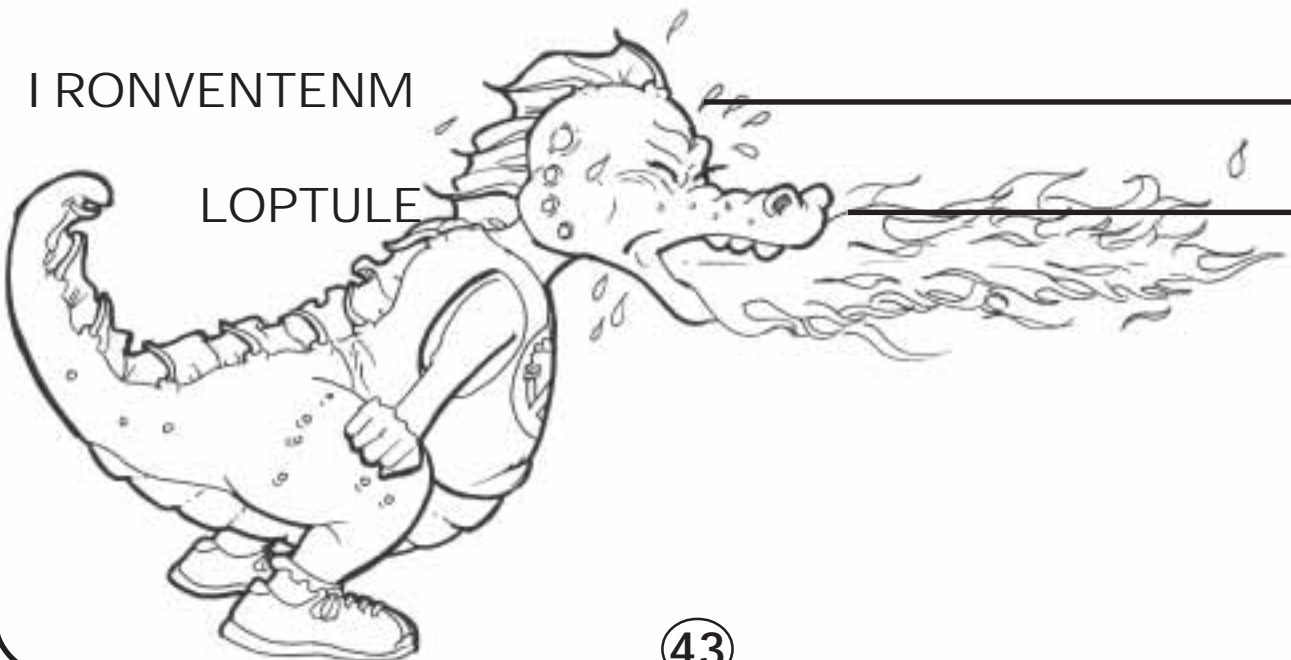
TRICELECTIY _____

SERNOCEV _____

LECUFLEI _____

IRONVENTENM _____

LOPTULE _____

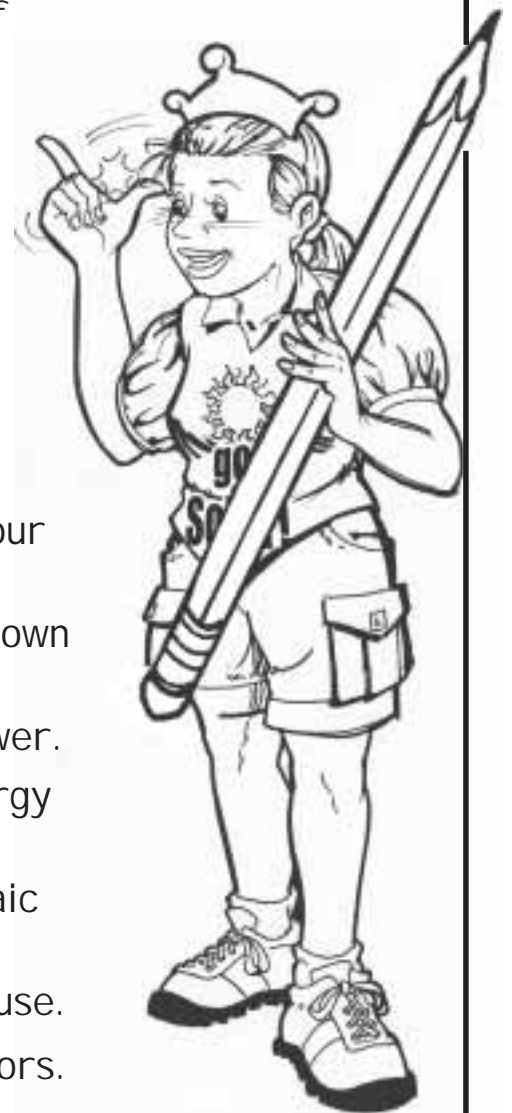


SUBJECTS AND VERBS

Directions: Draw one line under the simple subject and two lines under the verb in each of the following sentences.

Ex. Energy is the ability to do work.

1. Electric power serves every modern home.
2. Many appliances work on their own because of electricity.
3. The supply of electricity seems endless to us.
4. Our lives would be very difficult without it.
5. All of us expect uninterrupted electric service.
6. Electric energy is made by people and machines.
7. The power plant changes fuel into electric energy.
8. The people in charge of a plant watch the equipment carefully.
9. A power station produces a vast amount of electric current.
10. The generator is the heart of electric service.
11. Most generators are driven by a great steam turbine.
12. Energy is conducted from the generator to a distribution system.
13. Power lines carry the electric current to our home.
14. The wires in our homes distribute it for our many uses.
15. Some new homes are equipped with their own power source.
16. Some new homes use solar energy for power.
17. Special roof panels convert the sun's energy into electric power.
18. These roof panels are made of photovoltaic cells.
19. Batteries can store electricity for night use.
20. Wind turbines can drive electric generators.



An Energy Tip for You

What can you do to save energy? Solve the problems and find out. Write the word for each answer on the line under each problem.

$33 = \text{turned}$

$31 = \text{is}$

$59 = \text{sure}$

$41 = \text{when}$

$25 = \text{off}$

$79 = \text{television}$

$99 = \text{it}$

$108 = \text{nobody}$

$87 = \text{be}$

$88 = \text{the}$

$78 = \text{watching}$

$$\begin{array}{r} 64 \\ +23 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ +46 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ +13 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ +20 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ -62 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ -24 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ -62 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ -56 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ +13 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ +21 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ +42 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ +26 \\ \hline \end{array}$$

Suggested Reading

Benjamin Franklin's Adventures with Electricity *by Beverley Birch and Robin Bell Corfield.*

This is the true story of one man – his curiosity, and the discoveries he made because of it. ISBN 0-8120-9790-4

The Lorax *By Dr. Suess*

The Lorax is an ecological warning that still rings true today. Dr. Seuss teaches readers not to fool with Mother Nature. Our fate is placed in the hands of a caring child, who becomes our last chance for a clean, green future. Ages 4 to 8, 72 pages, ISBN: 0394823370

Dorling Kindersley Eyewitness Books – Electricity *By Steve Parker*

Discover the story of electricity – from the earliest discoveries to the technology that has transformed our lives. ISBN 0-7894-5577-3

Environmental Action -Energy Conservation

Teacher resource guide. Challenge students to investigate environmental issues and to actively contribute their ideas, time, and energy toward creating solutions at the local level. ISBN 0-201-49528-7

Switch On, Switch Off *By Melvin Berger*

Electricity makes a light bulb glow and a radio play music. But how does it really work? Read and find out exactly what happens every time you flip a switch. Ages 4-8, 32 pages, ISBN: 006445097X

The Magic School Bus and the Electric Field Trip

Ms. Frizzle takes her class on an electrifying field trip to learn about electricity and electrical safety. ISBN 0590446835

What makes everything go? An Energy Primer *by Michael Elsohn Ross*

Here's a light-hearted introduction to important energy concepts for children ages 5 and up. ISBN 0-939666-19-7

Young Discoverers – Energy and Power – Environmental Facts and Experiments

This book looks at energy and power and explains how we are damaging our environment by using too much of it. It suggests lots of experiments and things to look out for, as well as ways we can help to make our world a cleaner and safer place. ISBN0-7534-5502-1

Henry Hikes to Fitchburg *By D.B. Johnson*

Inspired by a passage from Henry David Thoreau's WALDEN, this wonderfully appealing story follows two friends who have very different approaches to life. When the two agree to meet one evening in Fitchburg, which is thirty miles away, each decides to get there in his own way and have surprisingly different days. Ages 4-8, 32 pages, ISBN: 0395968674

Energy Makes Things Happen (Let's Read-and-Find-out Science Series) *By Kimberly Brubaker Bradley*

Did you know that energy comes from the food you eat? From the sun and wind? From fuel and heat? You get energy every time you eat. You transfer energy to other things every time you play baseball. In this book, you can find out all the ways you and everyone on earth need energy to make things happen. Ages 5-6, 40pp, ISBN: 0064452131

Energy from the Sun *By Allan Fowler*

Defines energy and examines how energy from the sun provides us with heat, light, plants, food and other things necessary for life on Earth. 32pp, ISBN: 0516262556

Pass it on!

**Do you know a teacher that would benefit from
Watt Watchers? Encourage them to enroll.
Every school should be a Watt Watchers school.**

ENROLLMENT FORM

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1-888-US WATTS (1-888-879-2887) Toll Free Phone & Fax
P.O. Box 68660, El Paso, Texas 79968
e-mail: info@wattwatchers.org
<http://wattwatchers.org>

(Please Print Clearly)

Your Name: _____

School Name: _____

School Address: _____

(Free kit will be shipped to your school – Street address preferred)

City: _____ Zip: _____ County: _____

School Phone: () _____ - _____ School Fax: () _____ - _____

E-mail Address: _____

Name of School District: _____

Date: _____ K-2 BkIt



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