



The National
Theatre for Children

This booklet belongs to:

CAPTAIN MATTAGE

OPEN YOUR EYES,
BE ENERGY WISE!



**Take this
booklet home!**

Share the activities inside
with your family to help
them save energy, too.



CAPTAIN WATTAGE

ENERGY VILLAINS BEWARE...

... Captain Wattage is everywhere!

Captain Wattage needs your help! Vivica Voltage has been running around town wasting electricity. Team up with Detective Iggy Badge and Miss Ellie Mentry to learn all about ways to save energy at home. Remember to Open Your Eyes, Be Energy Wise!

Can you help Captain Wattage save the day?

EDUCATIONAL CONCEPTS

- How to measure electricity use
- What renewable resources are
- Ways electricity is wasted
- How to conserve energy



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WORDS TO KNOW

Conserve	To use wisely; the opposite of waste
Efficient	Producing very little waste
Electricity	A useful source of energy used in many ways
Kilowatt	One thousand watts of electricity
Power Plant	A place where electricity is made to power our homes and schools.
Resource	Something we use to make electricity, like natural gas, water, solar energy and wind
Waste	To use more than necessary
Watt	A unit of electricity



CAPTAIN
WATTAGE



IGGY
BADGE



MS. ELLIE
MENTRY



VIVICA
VOLTAGE

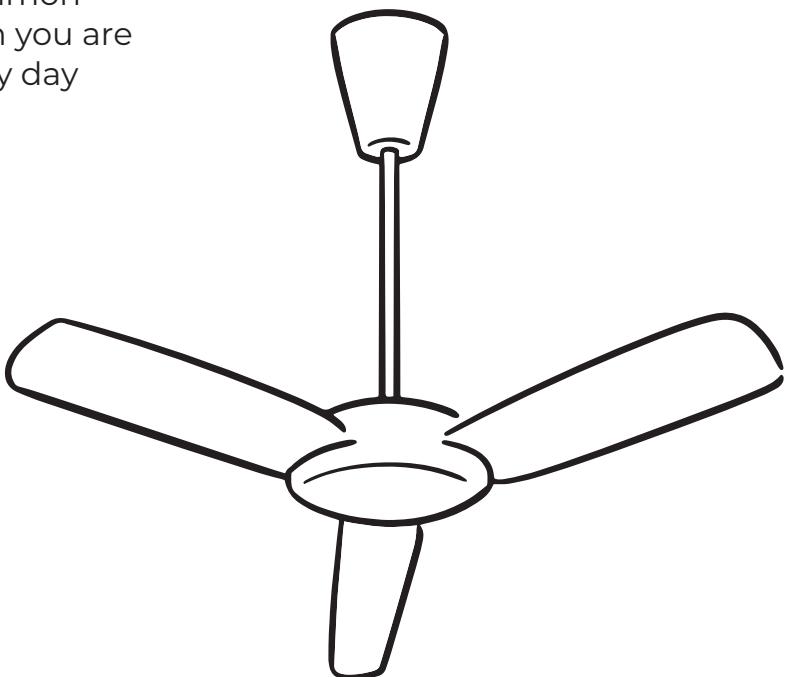
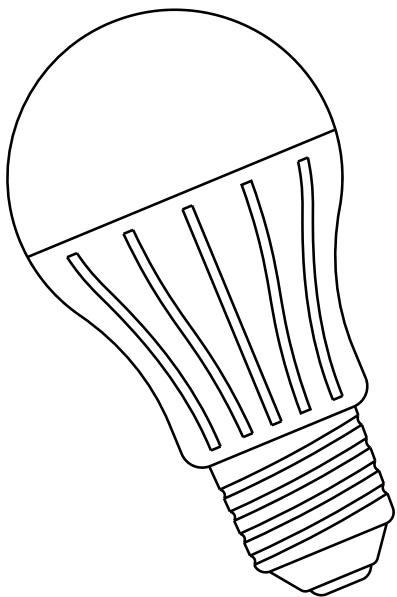
⚡ EFFICIENCY MATCH ⚡

Vivica Voltage has disguised herself as Captain Wattage, Iggy Badge and Miss Ellie Mentry so she can spread her wasting ways! Match the right energy efficiency messages to each other and cross out Vivica's lies. Then, rewrite the wrong messages with the correct information to help Captain Wattage save the day!



⚡ COLOR AND LEARN ⚡

Color the three pictures below of common items that use electrical power. When you are done, draw an item that you use every day that needs electricity!



CAPTAIN WATTAGE'S SECRET CODE



Captain Wattage has left you four secret messages about saving energy. Write in the correct letters, then share the messages with your family to save energy at home!

Turn your ceiling
when you're not using it.

One
resource is power.

Use a power strip to avoid
 loads.

Set your to 78 degrees when

you're and 82 degrees when you're .

SECRET CODE

☺	❖	☀	滴	⟳	♦	★	●	■	○	□	❄	▲	△	↗	◎	*
A	B	D	E	F	H	I	L	M	N	O	P	R	S	T	W	Y

MATH MESSAGE

Do the math and fill in the spaces below to complete the message.
Read the message out loud once you've completed it.



26 x 1 = RESOURCES

$140 - 37 =$ **POWER**

$15 - 9 = \boxed{}$ IS $6 \times 4 = \boxed{}$ USING

$17 + 6 = \boxed{}$ A $20 \div 5 = \boxed{}$ PLANT

$12 \div 12 = \boxed{1}$ **AT** $16 + 23 = \boxed{39}$ **MADE**

$11 \times 2 = \boxed{22}$

$8 \times 5 =$ BY



⚡ READ WITH MISS MENTRY ⚡

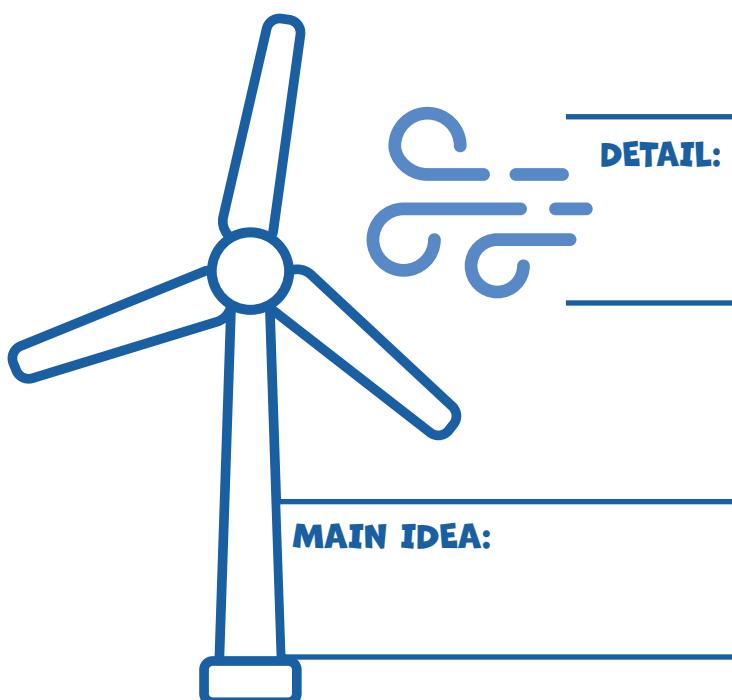
Read through the following paragraph. Determine the main idea and write it down beside the wind turbine. Then identify the three most important details, and write them down besides the gusts of wind. Extra Credit! Read this article aloud to someone!



RENEWABLE IS DO-ABLE!

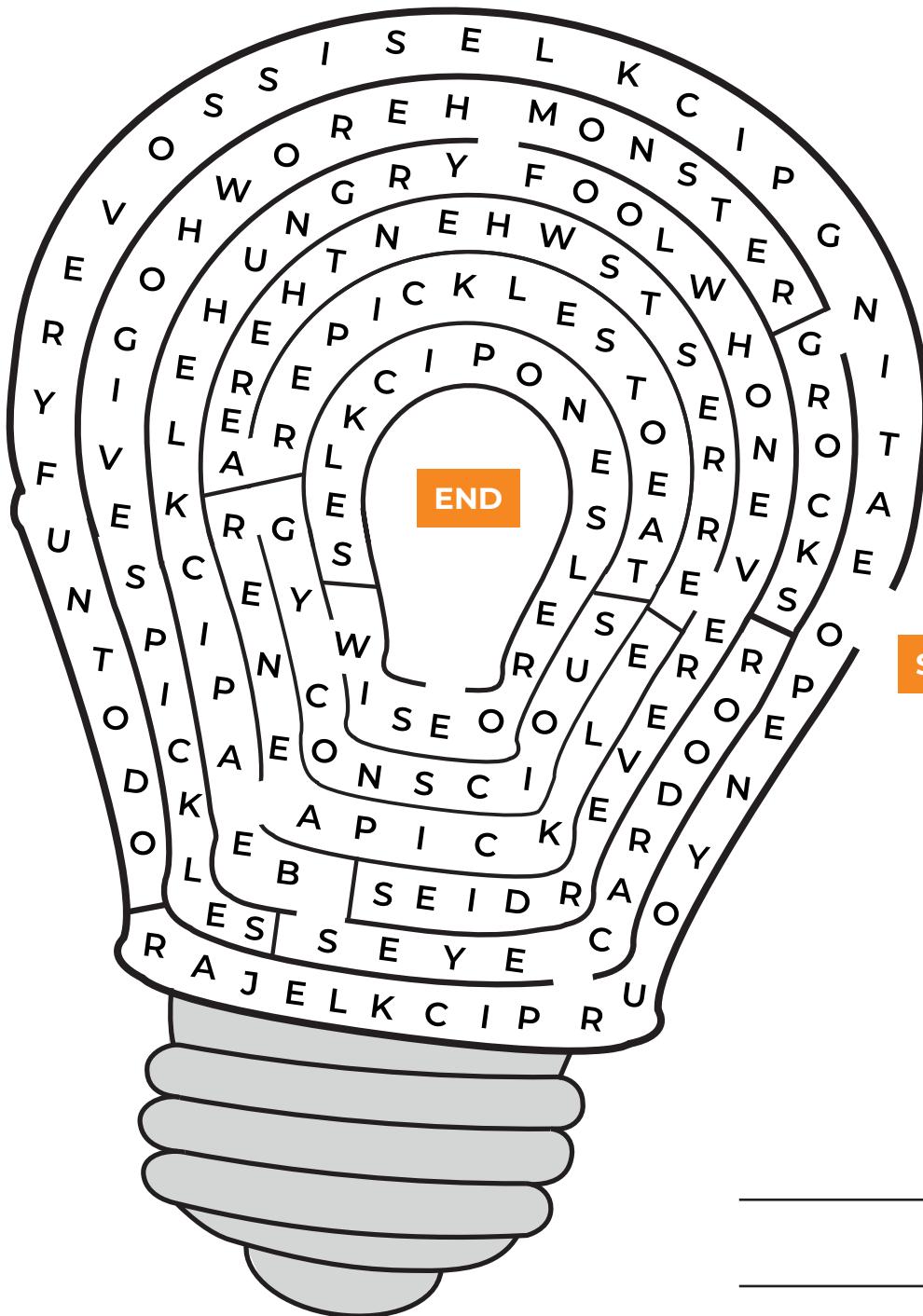
Every day we flip light switches, charge tablets, and use electricity for lots of cool things.

Right now, we get most of our electricity from natural gas, which works really well. However, natural gas is a non-renewable resource. Non-renewable means that one day, it will run out and we won't be able to use it anymore. The good news is that nature gives us amazing ways to make electricity that never run out: renewable resources! We can use sunshine with solar panels, wind with big spinning windmills and flowing water to create all the power we need. When we use these natural energy sources along with natural gas, and remember to turn off lights when we leave a room, we're helping make sure kids in the future will have plenty of electricity, too!



VIVICA'S MAZE MAYHEM

Vivica is running around the city replacing efficient LED lightbulbs with old incandescent lightbulbs! Find your way through the maze, writing down the letters in the order they appear on the lines below. Read the sentence out loud when you're done in order to stop Vivica!



⚡ KNOWING WHAT'S WATT ⚡

Every appliance in your home uses electricity. Below is a list of appliances and the wattage (electricity) it takes on average to use each one for 1 hour. Appliances marked with a ** denote an electric (not natural gas) version of that appliance.

Window Air Conditioner – 730

Ceiling Fan – 75

Clothes Dryer** – 4000

Laptop – 50

Washing Machine** – 4300

LED Television – 71

Lightbulb (incandescent) – 60

Lightbulb (LED) – 8-15

Microwave – 1440

Air Fryer – 1550

Which appliance do you think uses more electricity? Circle the correct answer.

**Microwave
for 1 hour**

or

**Air fryer for
1 hour?**

**Window air
conditioner
for 1 hour**

or

**Ceiling fan
for 5 hours?**

**Incandescent
lightbulb for
30 minutes**

or

**LED lightbulb
for 1 hour?**

**LED television
for 2 hours**

or

**Laptop for
1.5 hours?**



Make the pledge to use energy wisely for a better tomorrow! Write down one way you plan to conserve energy around your home.

I, _____ pledge to conserve energy. I will fulfill my pledge by:

ANSWERS: air fryer, window air conditioner, incandescent lightbulb, LED television

⚡ SPREAD THE WORD ⚡

Pretend you just started a newspaper called the *Watt's New Daily*. How would you write an article for the paper to let everyone know what you have learned about energy? If you want to complete the rest of the activities first, that's okay! When you're ready to write your article, make sure it includes **why energy matters**, **info about resources** and **one way to conserve energy**. Every good article includes a picture; draw something to go along with your article when you're finished writing.

Teachers/caregivers, have your student read their article out loud to you when they're done. Then, tear out the page and hang up their article somewhere everyone can see it!

DIG DEEPER!

Try using some of the vocabulary words on the inside cover of this booklet in your newspaper article. Then make sure you include them in the picture, too!



Watt's New Daily

(Write headline here!)

(Draw image here!)



Hey parents, students and teachers!

GO TO: **NTC** **playworks.**com



Check out more fun
learning activities
on this topic at
NTCplayworks.com!

Here's How:

1. Go to NTCplayworks.com
2. Select your state and program
3. Enjoy the digital games, interactive activities, e-books and more