

The National Theatre for Children

ENERGY ACEDIES





Welcome to Smart Energy Academy.

Smart Energy Academy is a live theatrical production that presents three hilarious sketches all about energy efficiency.

In the first sketch we meet Al Dente, a laid-back pizza maker at Fluffy's Spaghetti, and his new helper. Together, they struggle to make a pizza when the oven stops working. Under pressure from their boss, the stressed-out Tara Misu, Al explains all about watts, natural resources, and how electricity is generated using both renewable and non-renewable resources.

In the second sketch, John Travoltage arrives home in a burst of energy only to have his dog remind him of all the devices left on around the house. Dog explains how wasting electricity harms the environment and how renewable energy sources can help. Together, they learn the importance of turning off lights, unplugging devices, and making small energy-saving changes.

Lastly, we follow "A Day in the Life" of an ordinary school student, who, after taking on an energy-saving assignment, discovers how small actions—like turning off lights and adjusting the air conditioning—can make a big difference in conserving energy. What seems like an ordinary day turns into an energy-saving adventure!

After watching the show, enjoy this playbook and learn even more about energy efficiency.



AL DENTE



TARA MISU



JOHN TRAVOLTAGE



DOG

WORDS TO KNOW A small attachment on a tap to save water in kitchens and bathrooms

To save or use wisely

Producing very little waste

LINOIOTIC	rroddonig very iitile waste
Electricity	A source of energy that runs our appliances

Aerator

Conserve

Efficient

Watt

Energy	The ability to do work and the force that makes things
	change

Kilowatt	One thousand watts of
Kilowatt	electricity
	,

	A lightbulb that uses less
LED Lightbulb	energy than a regular one. LED
	stands for light-emitting diode

Natural Resource	A resource we find in the
	environment

Power Plant	A building where electricity is
	generated

Programmable	An appliance that controls the
Thermostat	temperature in your house
memostat	and saves energy

Renewable Resource	A resource like the sun, the
	wind or moving water

	Something we use to make
Resource	electricity, like natural gas,
	water, solar and wind

Waste	To use more than necessary
VVUSLE	10 036 111016 (11011116063301)

A driit of electricity, used
to show how much energy
something uses

A unit of electricity used

EDUCATIONAL CONCEPTS

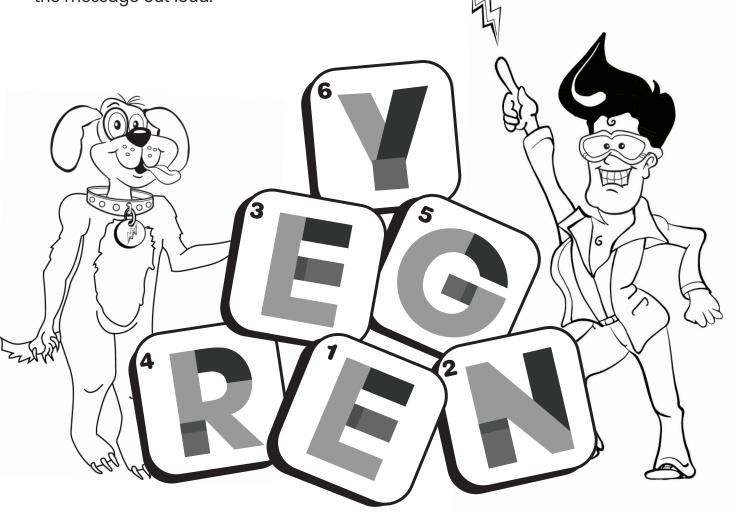
- What are ENERGY and ELECTRICITY
- What are energy RESOURCES
- How energy is WASTED
- How YOU can save energy



John Travoltage's

John Travoltage has mixed up Dog's message. Unscramble the letters and fill in the spaces below to fix it. Use the numbers if you need help; then read the message out loud.



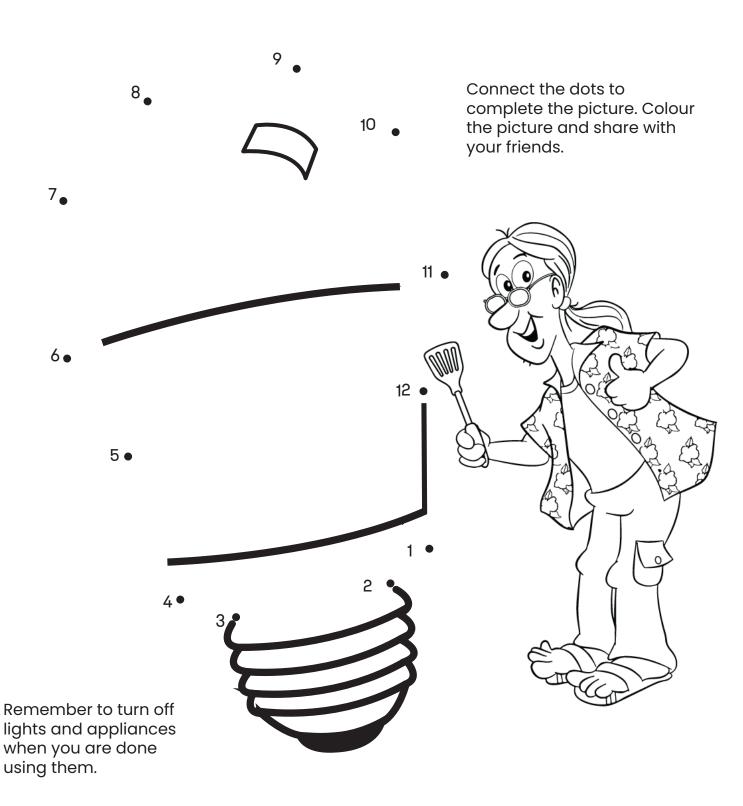


SAVE

1 2 3 4 5 6

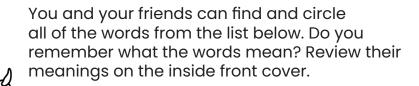


DOT TO DOT





ENERGIZED WORDFIND

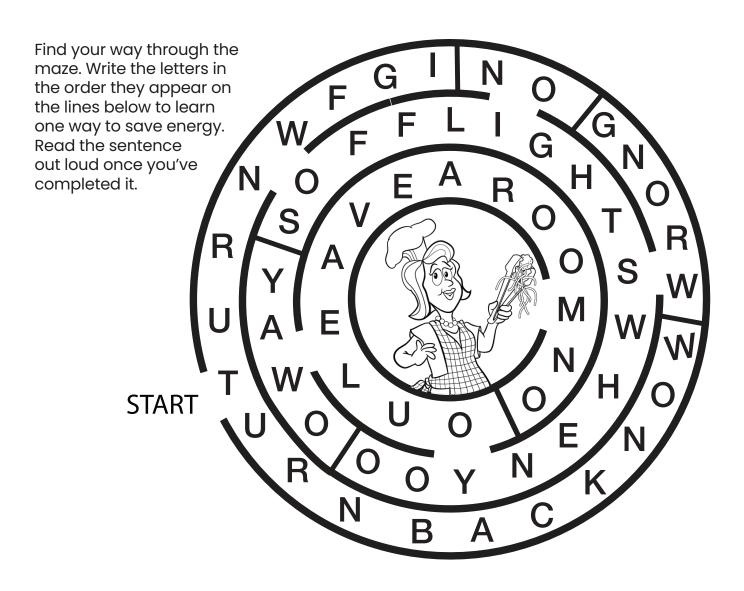


F W Η T C R U S R W B B K B T N J A Z A R E W X Z P J S M S G F C E Z R R T U 0 S E R O N Q B U E 0 D 0 P N H W T Q N E E C S F K F Z E N S D C E W C E R B M R K L 0 H G G Ν D S

CONSERVE
EFFICIENT
ENERGY
POWER PLANT
RESOURCE
WASTE



SUPER Maze



 •



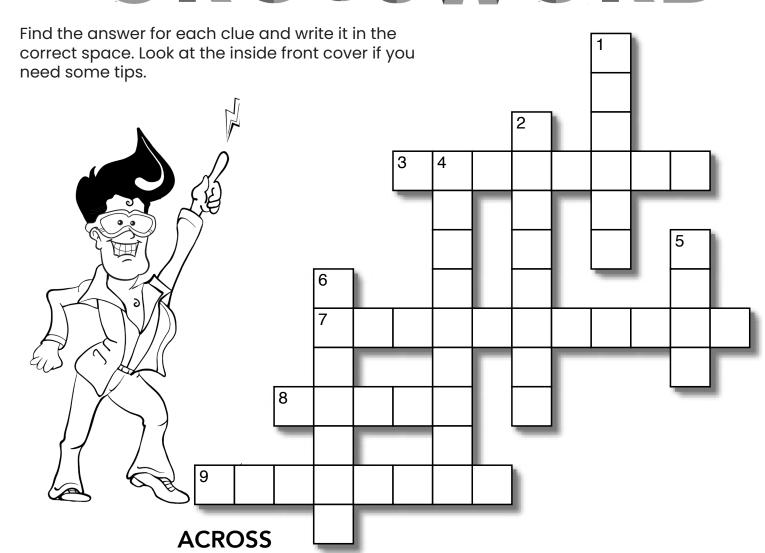
write a STORY about NATURAL RESOURCES

Write a story about natural resources. Include what you learned about energy, resources and saving energy. Use another piece of paper if you need it. Share what you know by reading your story to your family.

		1			
		4	Contraction of the contraction o		
					_
				Jags V	$^{\prime})$
		Й			2



John's CROSSWORD



AERATOR CONSERVE EFFICIENT ELECTRICITY ENERGY KILOWATT RESOURCE WASTE WATT

- 3. Something we use to make electricity, like natural gas, water, solar energy and wind
- 7. A useful source of energy used in many ways
- 8. To use more than necessary
- 9. One thousand watts of electricity

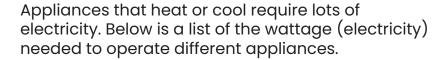
DOWN

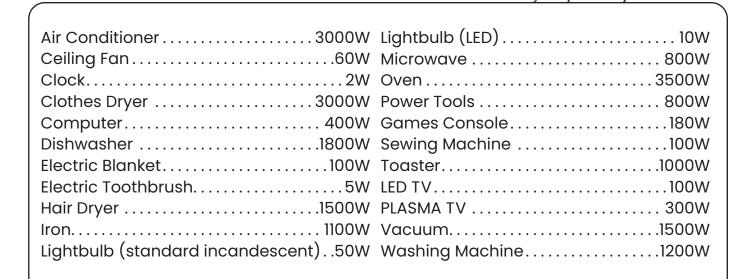
- 1. The ability to do work and the force that makes things change
- 2. To save or use wisely
- 4. Producing very little waste
- 5. A unit of electricity
- 6. A small attachment on a tap to save water in kitchens and bathrooms



Knowing What's







Which appliances do you think use more electricity? Circle the correct answer.

Air Conditioner or Ceiling Fan? Iron or Sewing Machine?

Oven or Microwave? TV or Computer?

Hair Dryer + Clock or Vacuum + Microwave? Standard Lightbulb or LED?



Tara Misu's

ENERGY MAT

MESSAGE

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



To save energy, turn off



WATT'S it worth?

You and your family are on a mission to save energy. Every time you save energy you also save money! Over one week, track how many energy saving actions you take at home, then calculate how much potential electricity (kWh) and money you could have saved!

Energy Saving Action	Energy Saved per action*		Action Tally Keep a count every time you complete an action		Total Energy Saved per action
urn off lights when leaving a room	0.34 kWh	X _		=	kV
urn off appliances	0.6 kWh	X _		=	kV
Take 4 minute showers	0.82	x _		=	kV
			TOTAL Energy Saved	=	kv

From Watts to Wallet

Using electricity at home adds to your family's energy bill. Each kWh costs about \$0.30! When you save energy, you're saving money too! Multiply your total kWh saved by \$0.30 to find out how much money you could have saved this week.

Average Energy Cost

\$0.30 X

TOTAL Energy Saved | ENERGY Saved | TOTAL Energy Saved | TOTAL

Watt's That Worth Over a Year?!

How much would your family save in a whole year if you kept up these habits every week? Multiply your weekly savings by 52 weeks in a year.

Total Weekly Savings Weeks
\$0.30 \times 52 = \$

Potential yearly savings

Energy-saving starts with small actions. There are lots of other ways to make a difference at home.

Visit energyacademy.com.au to find out more!

SAVE ENERGY. SAVE RESOURCES. SAVE THE PLANET.



Participate in the **Smart Energy Academy School Challenge** and do your bit to help **save 2 million kWh of energy!**

Teachers will handout a Take Home Energy Survey for all students and familes to complete.

Return the completed survey to your classroom teacher to enter the challenge.

And while saving energy is a reward in itself, the **Smart Energy Academy School Challenge** offers exciting cash prizes:

\$100 for YOUR SCHOOL \$500 for one lucky FAMILY \$500, \$1,000, or \$2,000 for three SCHOOLS

For full reward details, visit

EnergyAcademy.com.au