



**YOU CAN MAKE A
DIFFERENCE!**

**KIDS
zone**

**WATER AND ENERGY
ACTIVITY BOOK**

Where does your electricity come from?

We use electricity for almost everything we do, whether it's turning on the lights in our house, playing our favourite video game and watching TV, or keeping our food cool and fresh in the fridge.

Many types of energy sources are used to generate electricity – non-renewable (an energy source that cannot be easily replenished e.g. coal, oil and gas) and renewables (an energy source that can be easily replenished e.g. solar, hydropower, wind, biomass and geothermal).

Electricity word search

Can you find all these electricity-related words? The words can be found across, down or diagonally.

Electricity	Renewable	Energy	Solar	Hydropower
Biomass	Geothermal	Wind	Fossil fuel	Coal
Oil	Gas			

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

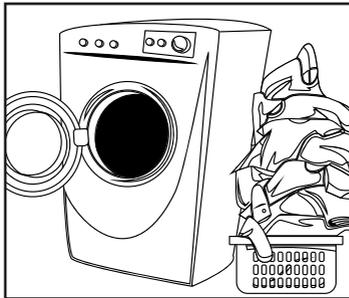
Saving electricity

Conserving energy, or reducing the amount of energy we use, puts less pressure on our power supply, reduce costs, and uses less of Earth's resources.

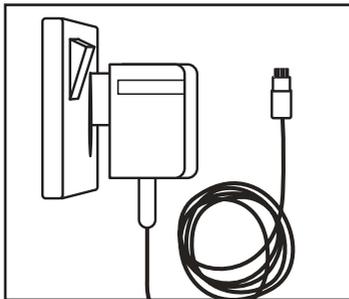
Some appliances, like refrigerators, need to be plugged in all the time in order to work. Other items, like laptops or mobile phone chargers shouldn't be kept plugged in because they use electricity even when they are turned off or not charging. These types of devices are called Vampire Electronics because they suck up energy!

Do you know how to be energy efficient? Take our Energy Trivia Quiz to find out! Colour in the correct answer.

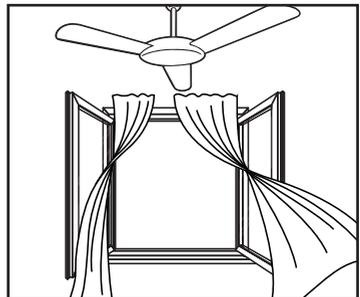
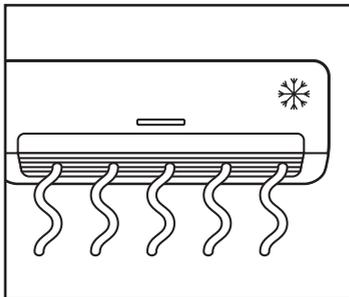
1. What is the most energy efficient way to dry your clothes?



2. Which of these is NOT a Vampire Electronic when plugged in?



3. What is the most energy efficient way to keep cool in the summer?



Watts up?

Did you know, 140 years ago, Australia didn't have electricity?

Complete the activity below by matching how household chores were done 140 years ago without electricity to how they're done today, and then match it to the energy efficient tip.

The first one is done for you...



Then
(1877)

Boxes with large blocks of ice were used to keep food cold

Charcoal and wood stoves were used for cooking and heating

Candlelight, oil lamps and kerosene lamps were used in most homes

Clothes were washed by hand with soap and water

Now
(2017)

Washing machines can clean clothes in less than an hour

Refrigerators keep food cool or frozen

Electric and gas ovens are used for cooking in most kitchens

Electric light-bulbs, including energy-saving lightbulbs, are used everywhere

Top tips
for energy
efficiency

Decide what you want before you open the fridge door so you don't have the fridge door open too long.

If you help with the cooking, use the right sized pot and it's lid to reduce cooking time.

Always switch off the light when you leave the room to save energy.

Only put dirty clothes out for washing to save electricity and water.

Whizzy's water saving tips

Water is essential for life on Earth. We use water for drinking, bathing, swimming and washing. Water is a limited resource. Of all the water found on Earth, only 1 per cent is suitable for human consumption. That is why it is important that we all do our part in conserving water. You can make a difference by changing the way you use water. If everyone saves a little, together we save a lot.

Colour in Whizzy's water saving tips and see how you can help conserve water.

Take short showers.



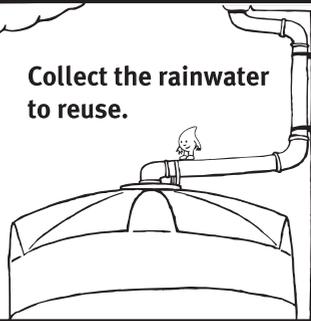
Turn off the tap when you brush.



Use the half flush on the loo.



Collect the rainwater to reuse.



Don't let the tap go drip.

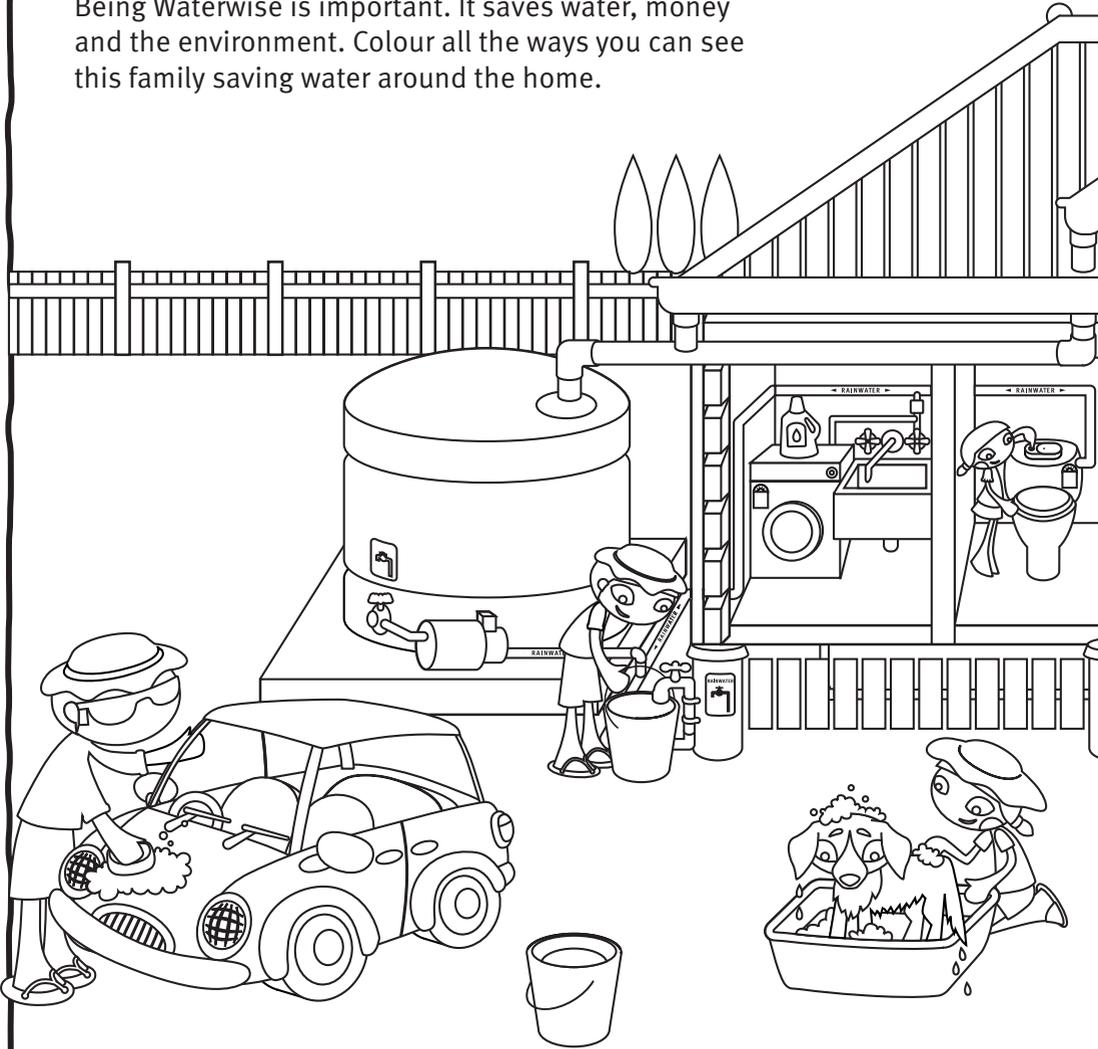


Recycle water too.

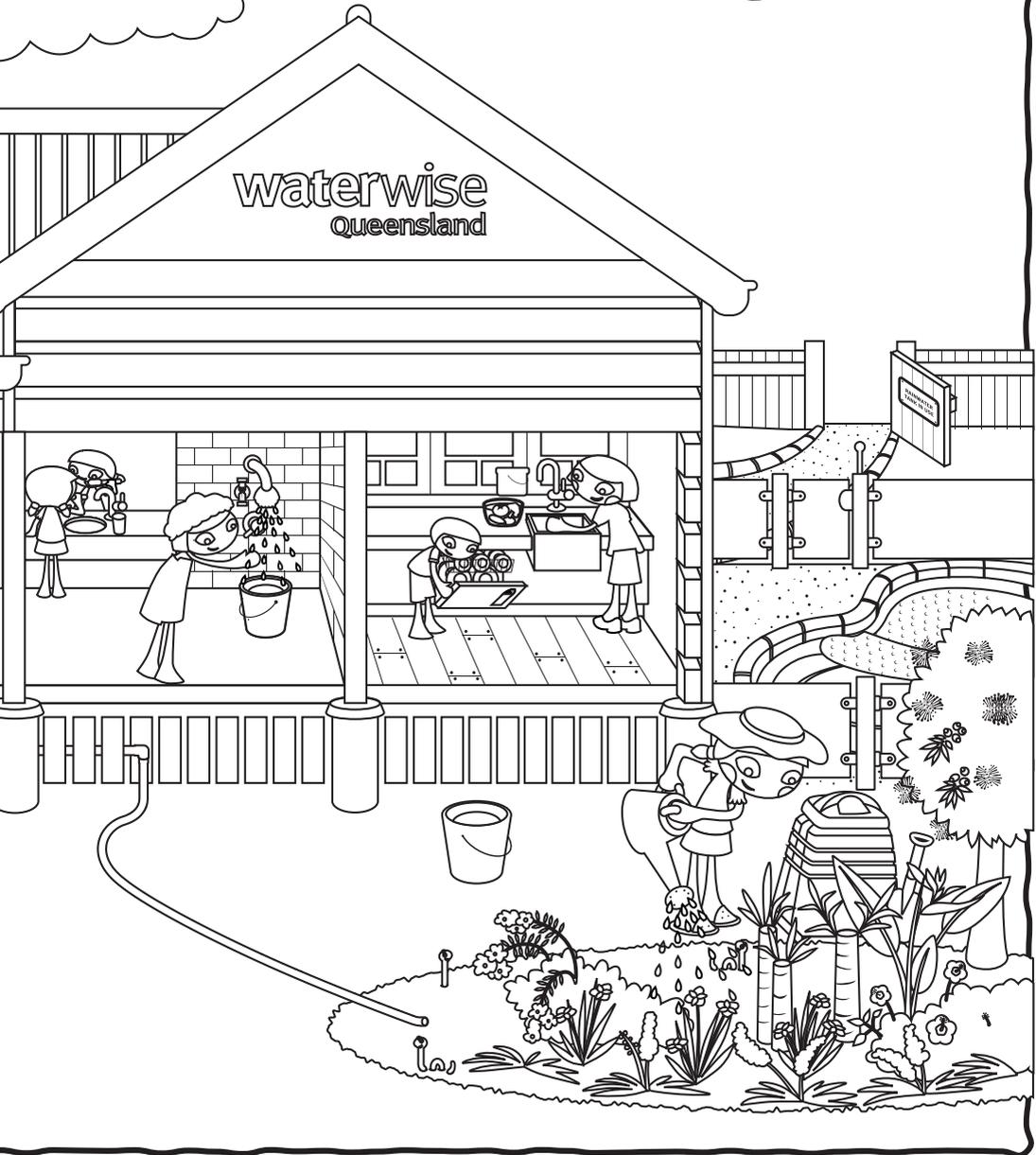


Be Waterwise

Being Waterwise is important. It saves water, money and the environment. Colour all the ways you can see this family saving water around the home.



waterwise
queensland





Why is wind power popular?

Because it has a lot of fans!

What did the sink say to the tap?

You're a real drip

What do you get if you plant a light bulb in your garden?

A power plant

How do energy-conscious people feel about wind power?

They're blown away!

What happens when it rains cats and dogs?

You have to be careful not to step in a poodle

Did you know?

- If you travelled as fast as electricity (about 300,000 kilometres per second – the speed of light), you could go around the world 8 times in the time it takes to turn on a light switch.
- If you had a light bulb on the moon connected to a switch in your bedroom, it would take only 1.26 seconds for that bulb to light up, 384,403 kilometres away.
- Water covers nearly 75% of the Earth's surface...Nearly 97% of the water is salty or undrinkable; 2% is frozen in ice caps and glaciers; and only 1% is suitable for human consumption.
- The overall amount of water on our planet has remained the same for 2 billion years.



Answers

Page 2 – Electricity word search

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

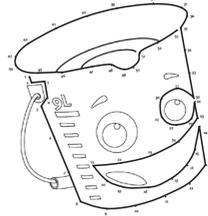
Page 4 – Then and now

Then (1877)	Now (2017)	Top tips for energy efficiency
Bases with large blocks of ice were used to keep food cold.	Washing machines can clean clothes in less than an hour.	Decide what you want before you open the fridge door so you don't have the fridge door open too long.
Charcoal and wood stoves were used for cooking and heating.	Refrigerators keep food cool or frozen.	If you help with the cooking, use the right sized pot and it's lid to reduce cooking time.
Candlelight, oil lamps and kerosene lamps were used in most homes.	Electric and gas ovens are used for cooking in most kitchens.	Always switch off the light when you leave the room to save energy.
Clothes were washed by hand with soap and water.	Electric light-bulbs, including energy-saving lightbulbs, are used everywhere.	Only put dirty clothes out for washing to save electricity and water.

Page 3 – Energy Trivia Quiz



Page 8 – Bucket loads of savings



Page 6 – 7 – Be Waterwise

Be Waterwise

Being Waterwise is important. It saves water, money and the environment. Colour all the ways you can see this family saving water around the home.

