



EcoLogic

You have the power to create a sustainable future

This worksheet is to be used with Project Pull-out 52, which is found in issue 105 of DMAG. You'll need to do a little detective work and read this Project Pull-out carefully to be able to complete your mission ... which is to do these activities!

THE CARBON CYCLE

Put these steps in the carbon cycle in the correct order by numbering them from 1 to 5.

- ___ Carbon dioxide from fossil fuels is released into the atmosphere.
- ___ Plants take in carbon dioxide and store it.
- ___ Plants die and are subjected to geological pressure.
- ___ Fossil fuels are dug up and burned to release energy.
- ___ Plants become fossil fuels over millions of years.



COMING TO TERMS

Match these words with their meanings. (You might need a dictionary to help you out with some of them.)

Carbon footprint	A change in the Earth's climate over an extended period of time.
Renewable energy	An increase in the Earth's temperature.
Non-renewable energy	Energy source that once used up, is gone forever.
Global warming	An energy source that will naturally replenish itself over time.
Climate change	The amount of greenhouse gases produced by your daily activities.

ABOUT DMAG
 This Activity Sheet was written by the staff at DMAG and sponsored by the Powerhouse Museum. These notes may be reproduced for use in school classrooms. To subscribe to the magazine they refer to, call 1300 361 146 (Australia) or +61 2 9901 6111 (International). Powerhouse Museum's new *EcoLogic* exhibition is on now.

POWER ME UP
 Find all the types of energy sources in this word find. Words can be upwards, downwards and diagonal.

- Coal Marine Petroleum
- Fossil fuel Natural gas Solar
- Hydro Nuclear Wind

AS GOOD AS NEW

Circle the renewable energy sources.

- Coal Nuclear
- Fossil fuel Petroleum
- Hydro Solar
- Marine Wind
- Natural gas

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



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TRUE OR FALSE?




Answer these true or false questions.

1. Switching off appliances at the outlet can reduce my home's energy usage by one-tenth. T / F
2. Fossil fuel based power is more environmentally friendly than solar power. T / F
3. You can save energy by taking shorter showers. T / F
4. There's a place in NSW where you cannot buy bottled water. T / F
5. It's better for the environment to buy food with long food miles than food with short food miles. T / F
6. Coastal areas might be flooded if the temperature rises by as little as 3°C. T / F
7. Carbon-13 is a major cause of climate change. T / F
8. Installing and using a dual-flush toilet will have no effect on our current climate change. T / F

MY CARBON FOOTPRINT



Fill in the following table with the things you're doing to reduce your carbon footprint.

Where	What am I doing to reduce my carbon footprint	How will this help reduce the effects of climate change?
At home 		
At school 		
In the playground 		
When travelling 