

grade
4-6

Climate Change

This is a resource developed by Bellarine Catchment Network. Learn about the process of climate change and what we can all do to reduce our climate change footprint.

For more information, email info@bcn.org.au



Climate Change

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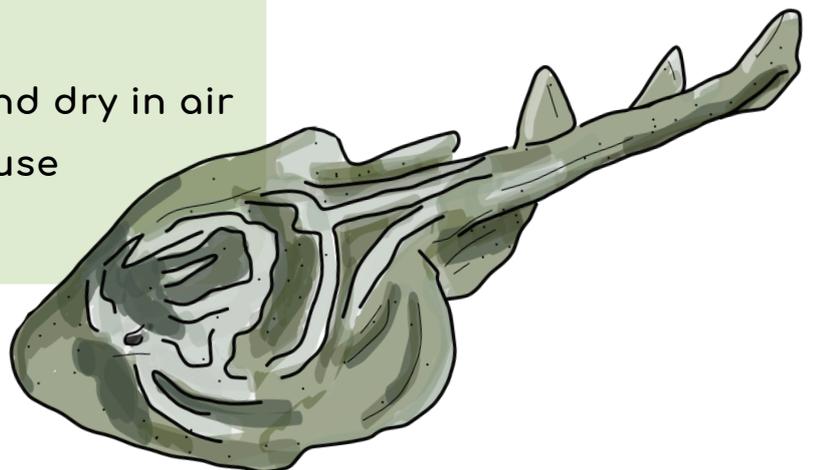
Since humans began burning fossil fuels (Coal, Oil, Gas) to make energy 150 years ago, fossilised carbon has been entering the earth's atmosphere 100 times faster than natural processes can return it to the Earth. Carbon is released into the atmosphere as the gas carbon dioxide. When we burn fossil fuels like coal, oil, and gas to power the way we live, work and play, excess carbon dioxide is released into the atmosphere where it acts like a heat-trapping blanket. When the Earth gets too hot, many natural processes like weather patterns change and many living things like plants, animals, and humans are put at risk.

But humans are very clever and care deeply about each other and all living things on Earth. There are many positive actions we can take to reduce the amount of heat-trapping gases that we release to the atmosphere. If we all do what we can to solve climate change, we can protect people and our environment from being harmed.

Some key actions to combat climate change:

1. Walk or cycle to school
2. Avoid wasting food - plan your meals
3. Install and use solar panels
4. Buy your food as local as possible
5. Use energy saving or low wattage bulbs
6. Grow veggies in your backyard
7. Buy less and reuse more
8. Wash clothes in cold water and dry in air
9. Switch lights off when not in use
10. Flush your toilet less

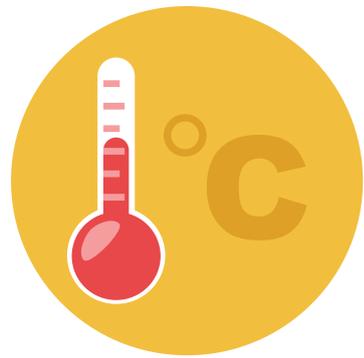
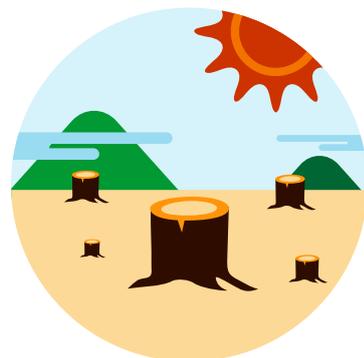
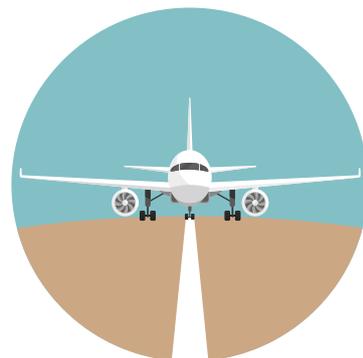
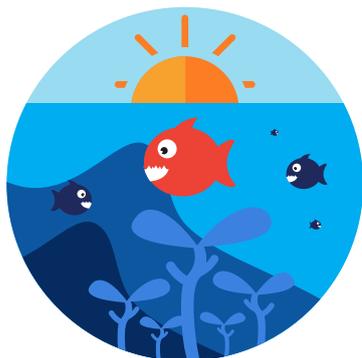
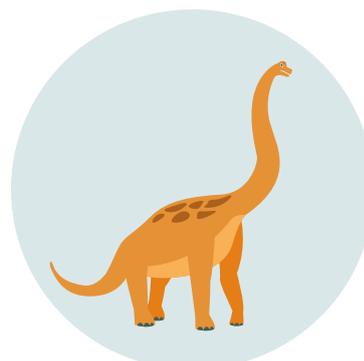
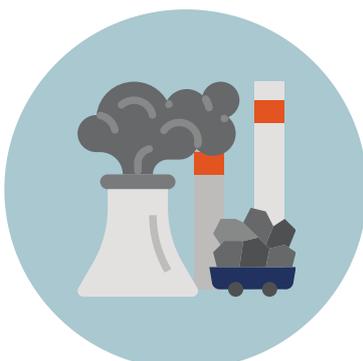
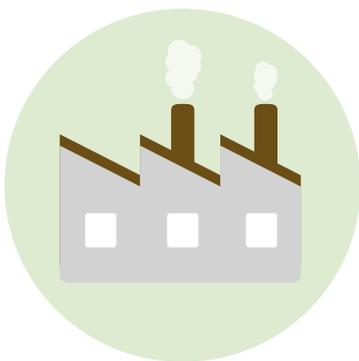
**southern
fiddler ray**



How does it all work?

Cut out all the circles below and arrange them into the three categories on the following page. 1. What causes climate change 2. How this affects nature 3. What will happen if not fixed. Underneath each circle, write out 1 or 2 words to describe the image and what you think it means.

[click here for more information and hints!](#)



Farm to fork

Find out where your food has come from. Find 7 things in your fridge with the 'Australian Made' label. These show the amount of ingredients in your food that were made in Australia. If it doesn't have one of these labels, it means that none of the ingredients come from Australia. For each ingredient, colour in a label below copying the label on the item and write the percentage next to it.



FRESH TIP!

Most fruit and vegetables are grown in Australia. Buying fresh is a great way to support Australian farmers and help reduce your climate change footprint.



Food planner

tip: use this to buy only what you need!

Our country uses fossil fuels to grow our food, package it, transport it to a supermarket and then get it to your plate. When food is thrown out, it wastes all that energy used to bring it to you! It then adds methane (a heat trapping gas) when it decomposes in landfill. To decrease your food wastage and climate change footprint, you can:

- 1) Plan your meals and only buy what you need (make a grocery list)
- 2) Store fresh fruit and vegetables properly to make them last longer
- 3) Use up extra food by making meals that use leftovers
- 4) Compost or use worm farms for food waste

CHALLENGE: For 5 days, write out the exact ingredients you would need to make a sandwich for your lunch. E.g. a vegemite and avocado sandwich might use; 2 pieces of bread, 1/2 an avo and 1 BIG serve of vegemite.

monday

tuesday

wednesday

thursday

friday

e.g. bread

.....

10 slices

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

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Sustainable search

Look around your backyard and inside your house and look for the items in the images below. If you find one, tick the box. The more items you can tick off, the more sustainable your home is!



solar panels



veg garden



water tanks



clothes line



recycle bins



LED lights



compost bins



reusable items



bicycle



myki card



native garden



water saving shower head

Climate categories

Cut out the words below and paste them into the two categories provided. If you find any that could fit into both, paste them in the middle of the page across both blocks of colours.

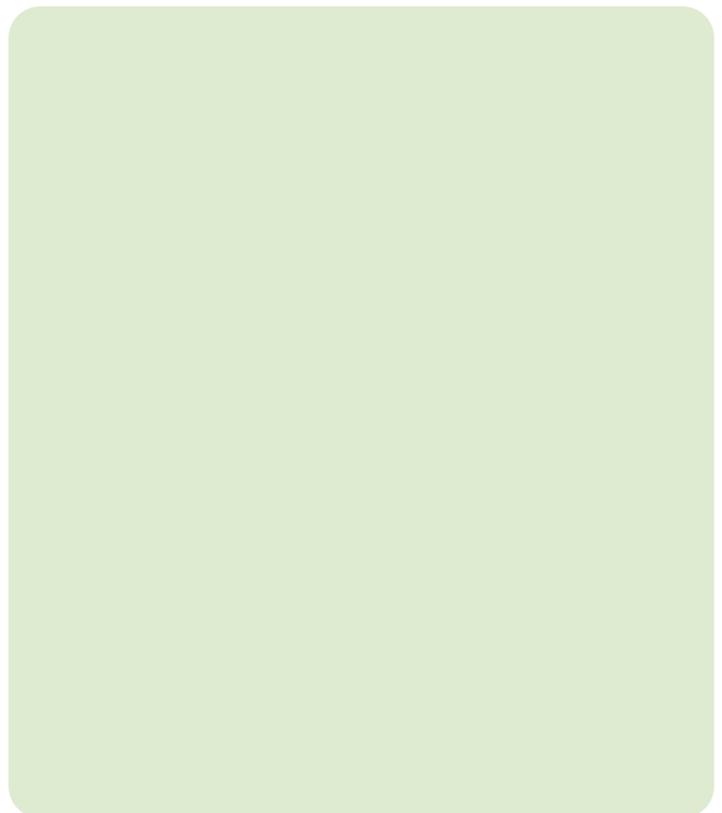
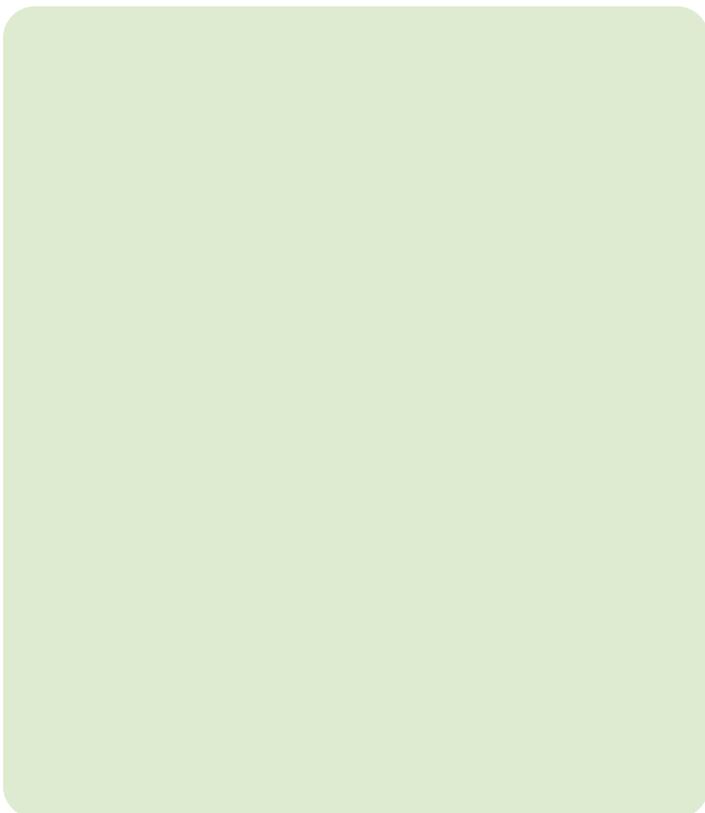
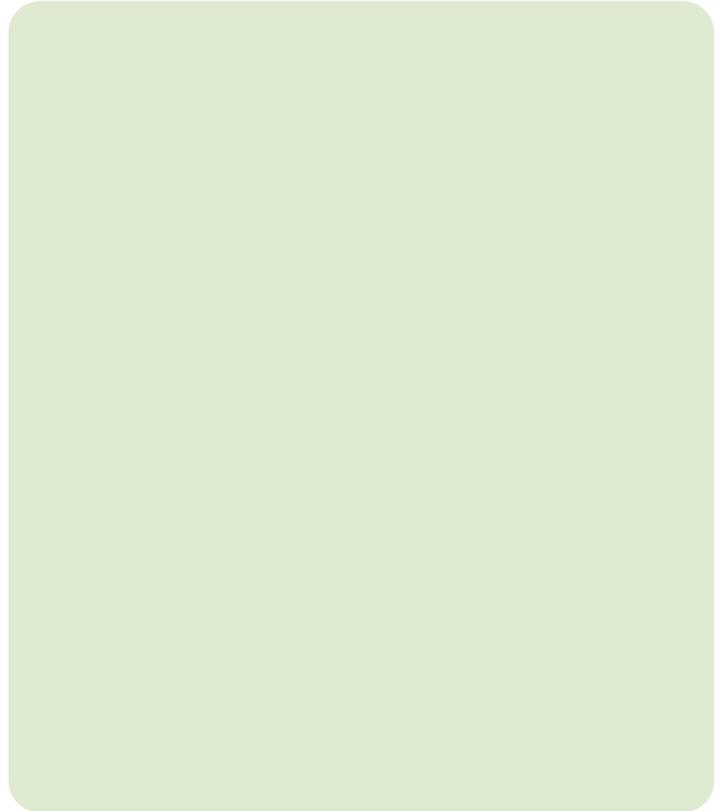
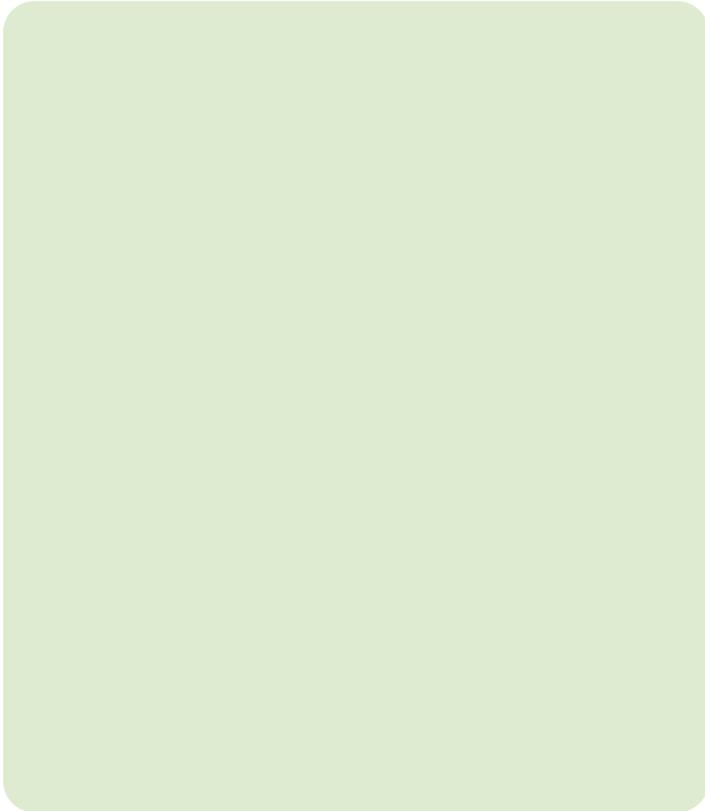
dry cloths on the line instead of dryer	eating less meat	switch appliances off at the wall
flushing the toilet every 3 goes	wash clothes in cold water	take the school bus
use energy efficient appliances ★★★★★+	riding or walking instead of car	stay warm using clothes not heaters
growing veggies at home	buy food from farmers markets	2 minute showers

things i can do

things i can ask others to do

Action reminders

Using scrap paper, felt or fabric scraps, leaves, sticks, pens or pencils, create visual reminders for yourself to put around your home or school. Some examples are; turn your lights off, ride a bike, write a grocery list, buy local. You can create your reminders in the squares below and cut them out.



Power pledge

We can all reduce our climate change footprint by using less power. Underneath the image of the globe, write out one simple action that you can do to reduce your power usage. Use what you have learnt in this module to list some actions you can do. You can colour in the globe and make this page a poster to put up at home.



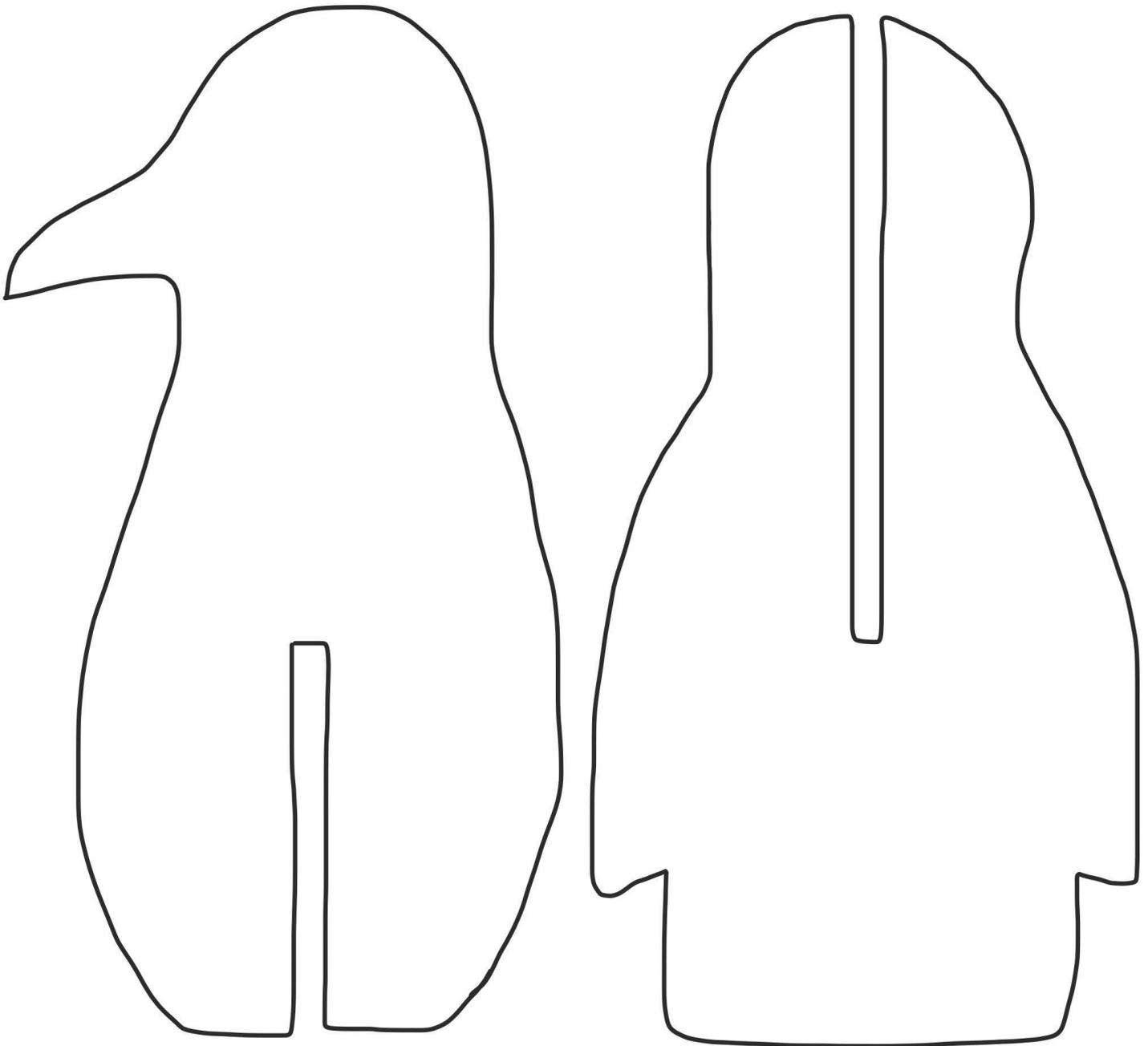
my power pledge

A large, empty rectangular area with rounded corners, shaded in a light green color, intended for writing a power pledge.

Climate characters

Penguins are often seen as "climate characters" or the voices of the animals threatened by the melting of ice from climate change. To create your own penguin character:

- a) cut out the pages below and trace the outline onto cardboard
- b) paint or colour in your character
- c) cut out your cardboard character (ask for adult assistance if needed)
- d) assemble your character



Did you know that you can watch the penguin parade at Phillip Island Nature Park LIVE at 6:10pm every night during lockdown on Facebook or YouTube

Evaluation

What activity was your favourite?

What is climate change?

Why do we need to stop and reverse climate change?

What can you do to reduce your climate change footprint?

Name

Teacher

Grade

Date
