

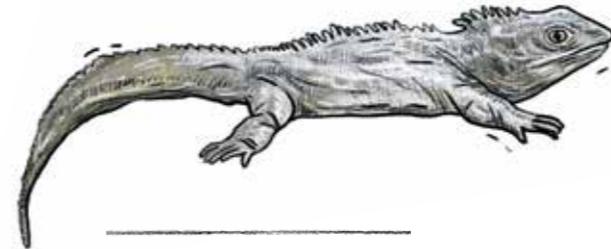
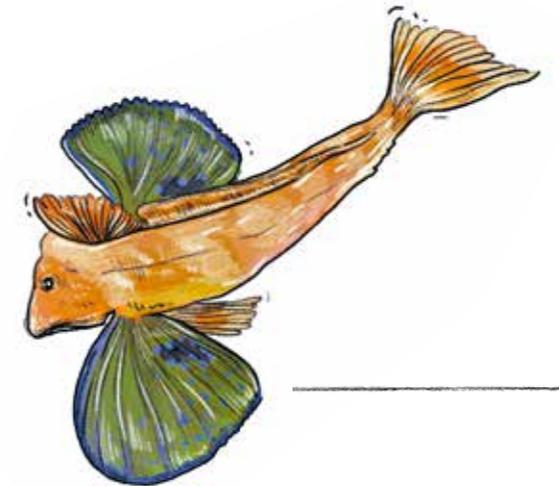
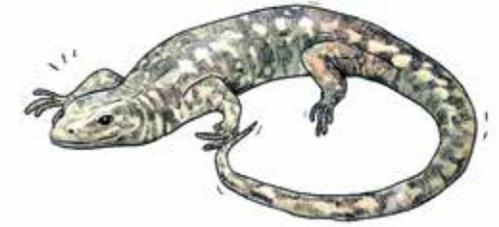


CLASSIFYING WILDLIFE

Match each of the animals pictured with their name in the following list: moko/Otago skink, kea, kiwi, pūwhaiou/gurnard, waiaua/Hector's dolphin, kōura, wētā, pekapeka/short-tailed bat, kekeno/New Zealand fur seal, kororā/little blue penguin, tuatara.

How many ways can you group these animals? By size? By colour? By their body coverings?

Write about your groupings here.



WRITE!



ORGANISE A TRIP TO A SPECIAL PLACE

Taking a trip to somewhere special is a wonderful way to spend time with friends and whānau. It's even better when it's to somewhere you've always wanted to go.

On the next page, write down where you would like to go and what you need to take with you. The list below will help you get started.



The name and phone number of the person you are telling of your plans in case of emergency

BE PREPARED

If you are heading somewhere outdoors in nature, be prepared. You never know how weather conditions may change. Check out the Department of Conservation's website for a recommended gear list for a day hike (find the link on page 171).

We are going to: _____

We will need:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

When you get home, attach some photos of your trip to this page, or write down or draw some of your memories of it.

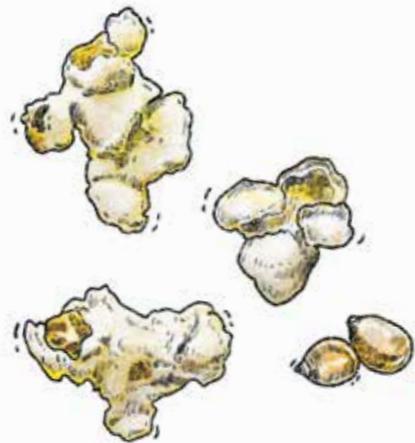


CURIOSITY IS KING

Watch something happening that you find interesting. It might be the rain falling, a bird eating, popcorn popping, your dog drinking water, a spider making a web or your brother putting on a coat to go outside. Write it here.

I am watching: _____

Come up with ten different questions about the activity (don't worry if you think finding the answer might be impossible). Think about the question words, like 'what', 'how', 'why', 'when', 'will', 'do' and 'where' if you get stuck. Write your questions down here.



IDEAS

Why are there different kinds of rain? Why do birds eat worms? Will popcorn pop without oil in the pot? Do dogs only like to drink water? Do spiders make webs of different shapes?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Choose your favourite question or the thing you really want to know. Write it here.

What are the different 'parts' of what you are seeing and who or what is involved?

What might you need in order to find an answer to your questions? Do you need any equipment or tools? Do you need to investigate it at a particular time?

What 'thing' (called a variable) would you watch or change to see if it had an effect on the activity? For example, to find out if the weather affects the food birds eat, you need to watch the weather. To decide if the type of material on which a spider builds its web affects the shape of the web, you need to look at different materials with spider webs on them.





MINDFUL MANDALAS

The word mandala means 'circle'. A mandala is also a symmetrical pattern representing wholeness and life that some of the world's religions use to help focus the mind.

You can make a mandala in a number of ways, but a great way to work with nature is by using leaves or leaf prints.

YOU WILL NEED:

Lots of leaves - different shapes from different trees, but also quite a few of each kind of leaf

Petals - again, lots of different shapes but plenty of each kind

Rice, sand, dried beans, dried lentils (optional)

Piece of chalk

Flat ground to work on - concrete, tiles or wood are best, but you can still attempt this on grass or dirt or black paper

Piece of chalk

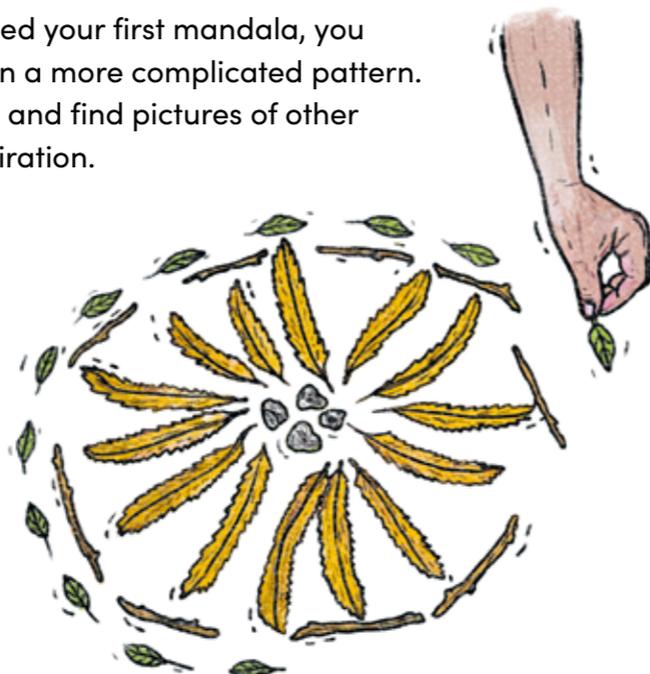
Paints and paintbrushes

Different kinds of leaves that you can use as 'stamps' (optional)

WHAT TO DO:

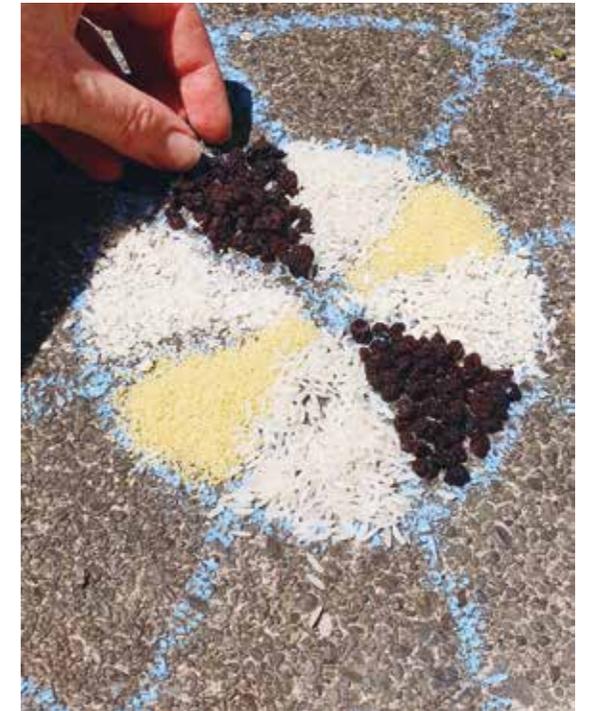
1. Find a spot on flat ground that you would like to work on, or lay out your paper if you are using paints. If you create your mandala on the ground, make sure it isn't anywhere people usually walk.
2. With chalk, lightly sketch your mandala design outline on the ground or on your paper. Start with a simple design like the one on the page opposite. Once you are happy with your design, go over the lines and make them thicker.
3. Choose the materials you will use to fill in your mandala design. If you are making your mandala on the ground, lay out leaves, flower petals, dried beans and so on in the different parts of your pattern, filling them in until no open spaces are left. If you are painting your mandala, remember that you can use things such as leaves as stamps to create really interesting patterns.

Once you've finished your first mandala, you might like to design a more complicated pattern. Do some research and find pictures of other mandalas for inspiration.



IDEAS

Take inspiration from nature for your mandala design - think of a snowflake, a slice of kiwifruit or orange, or a spider web.



TIP

Start off with a small pattern the size of a dinner plate - you can make bigger, more adventurous mandalas as you get better at it.



EGG-CARTON SEEDLINGS

You can grow seedlings in egg-carton cups using the seeds you collect from fruits or vegetables.

YOU WILL NEED:

Scissors

Cardboard/paper egg carton (one that takes a dozen eggs)

Water

Gardening gloves or rubber gloves

Spoon or trowel

Potting mix or soil

Seeds from fresh tomatoes (cherry tomatoes are great), chillies, capsicums or beans

Plate or waterproof dish (the egg-carton cups need to sit flat on this)

WHAT TO DO:

1. Using scissors, cut the egg carton into individual egg 'cups' (you may need an adult to help as this can be tricky).
2. Moisten each egg cup with water.
3. Put on your gloves and use a spoon or trowel to fill each cup with some potting mix or soil to about 1cm below the top edge.
4. Place the seeds on top of the soil. If you have cherry tomatoes, it's great fun to squeeze and pop the seeds into the soil! For small seeds like these and chilli or capsicum seeds, you could plant four or five in each egg cup. For larger seeds like beans, just put one in each cup.
5. Scatter some more soil thinly on top so the seeds are covered.
6. Place all the egg cups onto the plate or waterproof dish, making sure each cup sits flat on the surface.
7. Water your seeds by pouring water onto the plate or dish (so the cups can soak it up). Place the egg cups in a bright, warm spot, but not necessarily in direct sunlight – an inside windowsill can be a good spot.
8. When the seedling has grown two to four true leaves, it can be planted straight into your garden. To do this, simply take the seedling and egg cup and plant the whole thing straight in the ground in your desired spot – the egg cup will eventually rot away. Or you may choose to plant the seedling in a larger container on a windowsill in a sunny spot. Make sure you water your seedling when you plant it out, and keep watering it regularly.

How did your plant turn out?



IMPORTANT

Before you use potting mix, get an adult to help you and make sure you follow these guidelines for health and safety:

- Make sure you wear gloves when handling soil, compost or potting mix.
- When you open a bag of potting mix, open it slowly and point the opening away from your face.
- If you are in an inside space, make sure it is well ventilated.
- If the mix is dry, wet the soil before using it to reduce dust.

- After working with potting mix, wash your hands carefully before eating, drinking or putting your hands anywhere near your face.
- For more information, check out the WorkSafe New Zealand website.

TIP

You can plant your seedlings into the pots you make in the 'Repurposed pots and planters' activity on page 149.