O-Tū-Kapua

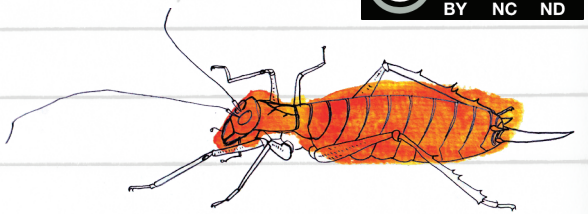
What clouds see

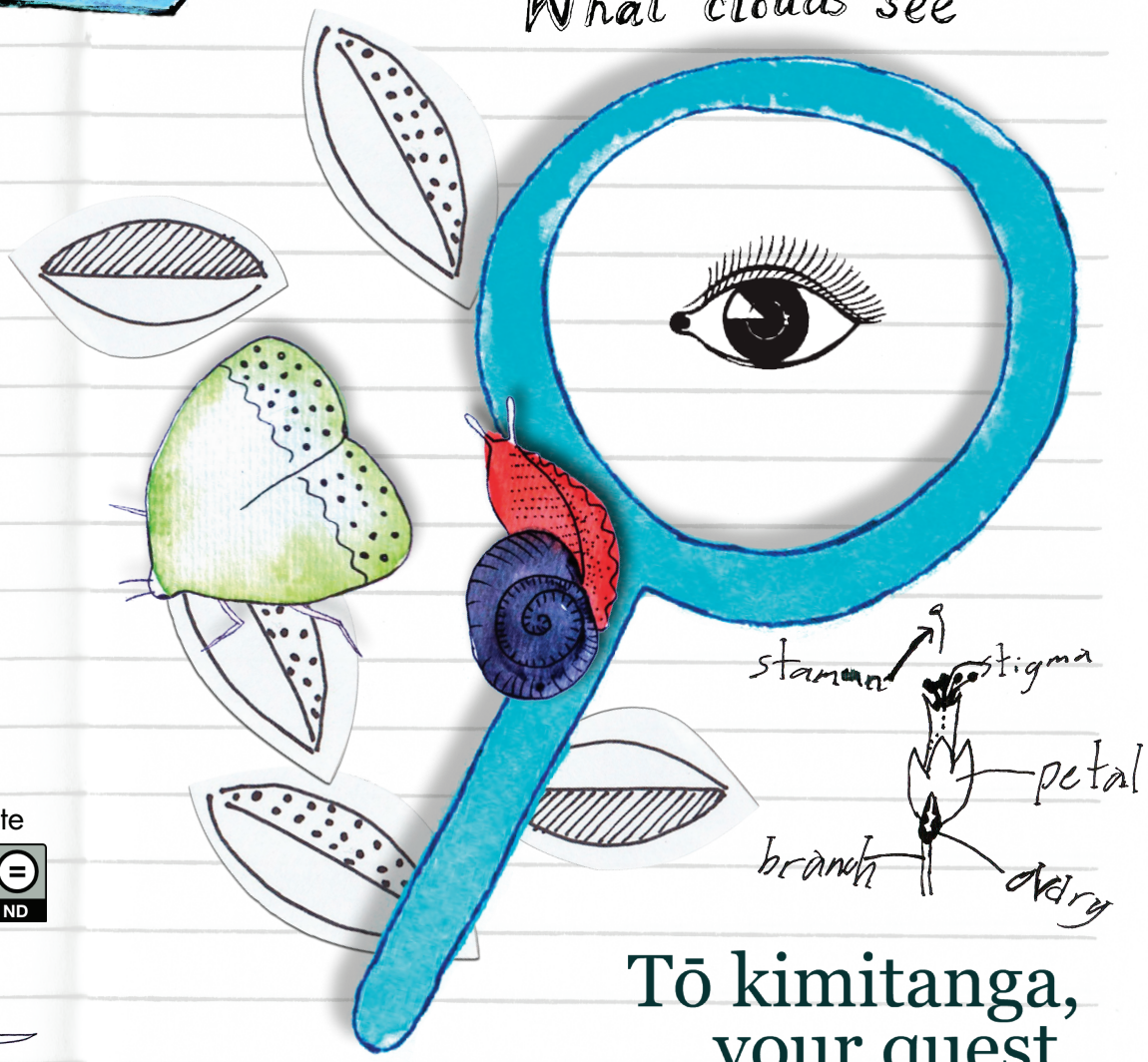
If you have plants and trees at home or at school you are helping to create a habitat, which is a secret world a lot like you've discovered today in our forest exhibition.

These habitats encourage the birds and insects to come to visit and make their homes amongst the houses and classrooms.

The forest is not just a great place to live! The trees make oxygen (O_2), which we need to be able to breathe. The insects and birds need oxygen too.

Talk to your parents or teacher about starting a habitat project. It could be as simple as making a Wētā house. There are lots of things you can do to help the environment... look on our website www.otukapua.nz





Tō kimitanga, your quest...

If you would like to download the augmented reality app to help you in your quest, you can find it in the Google Play store or Apple App store, Search for O Tu Kapua

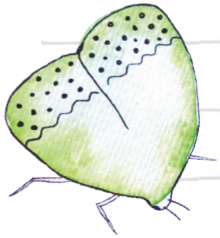
Or you can use the QR code on the wall of the gallery to find it.

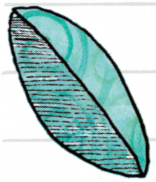
If you can not download or use our app on your device, that's ok, because you can go to our website www.otukapua.nz and find lots of information to help you complete the quest.

Air is everywhere...

but air is invisible. However, you can feel the wind, humidity, and you can see the clouds and capture the rain!

How do you think trees drink rain?





Rain is part of the Water Cycle... about 70% of the earth is covered with water.

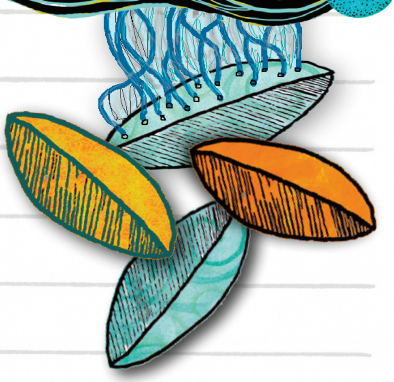
The clouds produce rain (precipitation), which falls to the ground, giving the trees something to drink...then the water evaporates back up into the sky, making more clouds (condensation). This is the Water Cycle.

Did you know that the water that rains down now is the same water that rained down when the moa walked amongst the forests of Aotearoa?

What kind of molecule am I ? .....

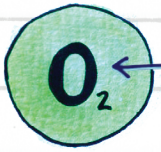
Warm air is less dense than cold air, so hot air can hold a lot of water vapour, which is why in summer it often feels so sticky.

Did you know that when you breathe out you release water vapour. Plants do this too, it's called transpiration.



Trees use transpiration to control the temperature of the air around them, leaves play an important part in this process too.

Humidity is.....



Air Molecule

Water molecule