

How is a Rainbow Made?

Imagination
Station

Kia ora explorers!

This worksheet is to help you learn about rainbows!

Start by watching this LEGO discover video on YouTube:

<https://www.youtube.com/watch?v=2gf0xhBlzZ0>



QUESTIONS:

Cave drawings showing rainbows suggest that people used to think a rainbow was **what** moving across the sky?

Research:

The Greek goddess Iris is the goddess of rainbows. What is a key role Iris had in Greek mythology?

What other things were associated with Iris?

Which group of people believed rainbows were a bridge to Valhalla?

Research:

What shape is a rainbow when viewed from above?

EXPERIMENT:

Find a way to make a rainbow. If you don't have the equipment used in the video, try using a prism, some sparkly jewellery, or a CD! You might be able to use sunlight rather than a torch. Take a photo of your rainbow.





How is a Rainbow Made?

QUESTIONS:

What is the word used to describe light splitting into the colours it is made of?

To see a rainbow in the sky, you need to have a few things in order. Rainbows rely on sunlight, rain, and our eyes being in a particular arrangement. Draw a diagram to show how these three things have to line up for us to see a rainbow.

A large, empty rectangular box with a thin black border, intended for a student to draw a diagram showing the arrangement of sunlight, rain, and the observer's eye to see a rainbow.

True or False:

There is no such thing as a double rainbow (circle one).

True

False

Research:

What order are the colours (inside to outside) in a **primary** rainbow?

Research:

What order are the colours (inside to outside) in a **secondary** rainbow?

Rainbows are created when white light (like sunlight) is split into the whole spectrum of colours making up that light. How can you create white light?

(You may be able to test your theory using cellophane or other transparent colour filters for torches.)