



**SCIENCE
ALIVE**

Observation

The Bigger Picture

Teacher Guide

Created with support from:



Description:

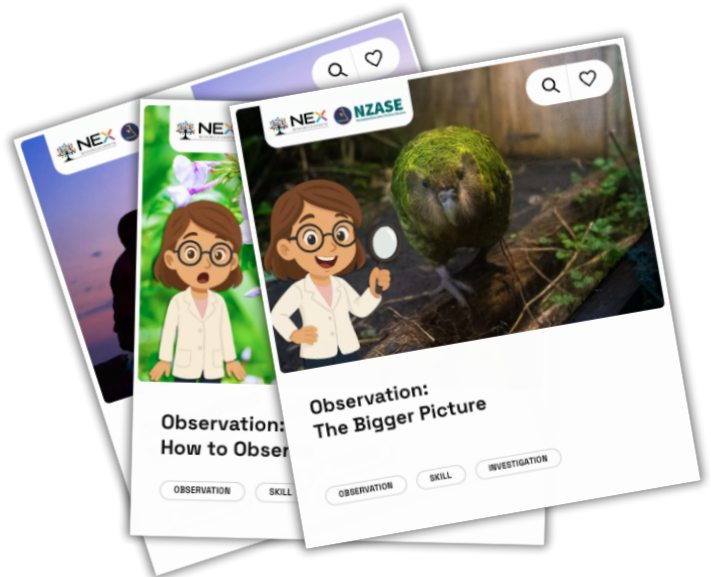
This lesson can be completed on its own or directly connected to two others to create a larger piece of learning. The following links take you to the interactive versions of these lessons. Printable versions can be found on the NZASE website.

Optional Lesson Sequence:

- [Observation: How to Observe](#)
- [Observation: Tools and Recording](#)
- [Observation: The Bigger Picture](#)

This teacher overview is a printable version of our interactive lesson. See this and much more at sciencealive.co.nz

Scan the QR code to visit the Science Alive Education Portal.



In this lesson, explore how scientists use observations to investigate the world around them. Learn how to make careful observations, compare results, spot patterns, and ask correct questions. Discover the key steps of a scientific investigation, including making predictions, testing ideas, and drawing conclusions. Finally, learn how small observations can help explain big scientific ideas and how to use tools like graphs to show what you have found.

Learning Objectives:

- Explain how observations help scientists make predictions.
- Describe how comparing observations helps scientists find accurate information.

Follow up Activities:

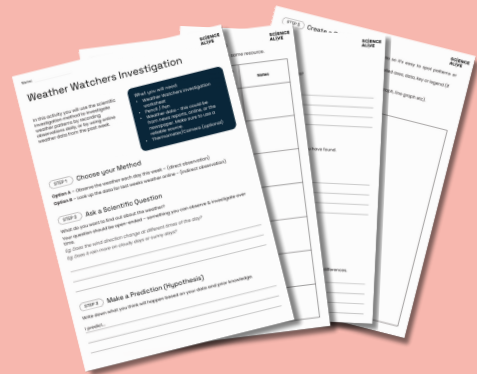
Weather Watchers Investigation

In this activity, you will use the scientific investigation method to explore weather patterns.

You can either make your own daily weather observations, or use online weather data from the past week.

Using the Weather Watchers Investigation Printable, follow the step by step instructions to guide your investigation.

You will get to practise asking scientific questions, making predictions, recording and graphing data, analysing patterns, and finally drawing a conclusion from your findings.



[CLICK HERE FOR THE PRINTABLE](#)

Extra Resources:

- Science Alive online [Mini Activities](#)
- Science Alive online [Application Activities including Investigations](#)
- Science Alive - [Observation Teacher Guide](#)
- Science Learning Hub - [Observation Collection](#)

He mihi (Acknowledgements)

We would like to give special thanks to the New Zealand Association of Science Educators (NZASE), the Network of Expertise (NEX), and Anne Barker for their support with this lesson.



Want to become a member of NZASE?

Join the New Zealand Association of Science Educators!

Scan the QR code to find out more!

