# DIY Science Investigation

## Representing Coastal Conservations with Science Inquiry

In this activity, you are encouraged to develop an environmental science experiment of your own. What issues are impacting your local coastal environment? Discuss these issues and select one that you feel passionate about. Design an experiment to demonstrate the impact of this issue to others. What questions could you use to guide your experiment? What variables will you change and measure? Check with an adult to ensure your experiment is suitable before you begin.

**What environmental issue are you hoping to illustrate?**

**What questions could you use to guide your experiment?**

| Controlled Variables (What will stay the same?) | Independent Variables (What will you change and how?) | Dependent Variables (What will you observe/measure and how?) |
|---|---|---|
| | | |

**What steps will your method involve?**

**Step 1** → **Step 2** → **Step 3** → **Step 4**

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## Analysing Data

Good scientists collect, organize and appropriately represent and interpret data. Once you have collected your data, find a suitable way to share it here.

**Display your data here.**

**What do your results show? Summarise your data here.**

**What patterns or trends occurred? How does this relate to existing scientific knowledge?**

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## Science Communication

Good Science communicators aim to inform, educate, raise awareness of science-related topics and increase the sense of wonder people have for scientific discoveries and theories. It is important to learn how to communicate ideas, information and findings in formal and informal ways. Communicate your ideas, methods and findings below using appropriate scientific language and appropriate representations.

**Use a suitable format to communicate your findings here (poster, brochure, slide, podcast, video):**

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## Evaluating Results

When reflecting on science investigations, it is important to refer to the quality of data when suggesting general improvements to the method. It is also important to consider how the equipment affected the accuracy of your results.

**Reflect on the quality of the data gathered in your experiment.**

**How would you improve the method of your experiment?**

**How could you change the equipment used to yield more accurate results?**