

The Magic Marine Window

Pre Visit

To maximize your Mm2 experience, students should have opportunities to practice:

- Identifying and Naming Marine Life...
i.e. Investigate and name simple marine animals such as, crabs, snails, fish and seaweed.
- Grouping Skills...
i.e. Investigate the difference between marine plants and animals.
- Observational Skills...
E.g. Place a selection of objects in a hoop. Students orally describe what they can see. Focus on size, colour, shape; can they describe items without using their name?

Watch: https://www.youtube.com/watch?v=d-P_Sn7JVZc

List/ discuss what students see; extend their thinking by asking “how do you know that? (scientists use evidence to support their thinking)

E.g. “It’s a crab!” “How do you know that?” “It has claws, legs and a thick shell.” The focus is not not getting the ‘right’ answer, it’s on getting students to begin providing evidence to support their thinking.

Mm2 - What to expect on the day

Students will be split into two groups and rotate between two activities.

Activity 1 - Rocky Pool Scavenger Hunt

Activity 2 - The Magic Marine Window

Post trip

Rocky Shore scientists don’t just observe and collect evidence. They use their data to investigate; similarities/ differences; draw conclusions; explore how what they found today might change tomorrow, next week, next year, in ten years; become innovative in finding creative solutions to try and ‘solve’ problems identified through these changes over time.

Students could:

- Explore the Questions Recorded on their 'Magic Marine Window'
You could use the following resources:
- Recreate Group 'Magic Marine Window'
Using only the evidence their group recorded, students cooperatively recreate a group picture of what their rocky shore looked like.
- Craft Verbal Observations into Writing Samples
To compliment their animals/ plants from the above activity, students write descriptive sentences explaining what they saw.
- Scientists Share their Findings
Provide the opportunity for each group to share what they discovered in their 'Magic Marine Window'.
- Draw Conclusions From Your Findings
Possible discussion questions:
Did all groups find exactly the same plants/animals? Why/ why not?
What was similar/ different between group findings?
Was an animal/ plant more common across all groups? Why?
Was their a rare find? Why?
- Explore 'Change' and the Impact on the Rocky Shore
Daily - high/low tides, how to the animals cope?
- watch: <https://www.youtube.com/watch?v=MZmFm-Ywu8k>
Daily/ Next Week - if you returned would you find the exact same thing? Why/ why not?

Global issues you could investigate include: pollution, human intervention such as fishing/collecting specimens without ethics, ocean acidification.