

Year 6 - Extreme Environments

Full Day program at NBEEC



Count the number of mangrove seedlings:

Site	Tally seedlings	Total number of seedlings
1 - Terrestrial		4
2 - Salt marsh		25
3 - High tide		27
4 - Average high tide		83

Count the number of mature mangrove trees less than 1m tall:

Site	Tally trees less than 1m tall	Total number of trees
1 - Terrestrial		4
2 - Salt marsh		5
3 - High tide		12
4 - Average high tide		36

Count the number of mature mangrove trees more than 1m tall:

Site	Tally seeds more than 1m tall	Total number of trees
1 - Terrestrial		4
2 - Salt marsh		5
3 - High tide		12
4 - Average high tide		36



Year 6 Nature Scientists will participate in a field study of two extreme environments at Nudgee Beach where **they describe and predict the effect of environmental changes on individual living things.**

Students complete a mangrove survey to **collect, organise and interpret their data** of different sites: Terrestrial low salt site, Salt Marsh hypersaline site and high tide and average high tide medium salt sites. **They describe and analyse relationships in data** between salt and mangrove growth and survival **using appropriate representations to communicate ideas, methods and findings.**

Students will discover in the field how **the growth and survival of living things are affected by physical conditions of their environment** as they participate in an experiential immersion session searching for a variety of different organisms on the intertidal flats at Nudgee Beach. To summarise their understanding, students will be asked to sort and classify these observed organisms into whether they are marine salt tolerant plants and animals or plants and animals that do not require salt water to live.

Back at the Centre, students will study how **Aboriginal and Torres Strait Islander Peoples' ways of life are uniquely expressed through ways of being, knowing, thinking and doing** as they explore how traditional knowledge of the physical conditions of flora enabled First Nations Peoples to light fire using wood from Duwalpin and Dakabin and use leaves from the soap tree for medicine and fishing.

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