



NZMSC

# Future Oceans Extension & Enrichment for secondary GATE students

## Programme schedule

### Day 1

- 09.30** Introduction to the day, H&S
- 10.00** Ocean warming. Explore the concept and investigate response in behaviour of a marine invertebrate.
- 10.30** INTERVAL
- 11.00** Analyse settlement results from 'heat plates', an international research. project.
- 12.30** LUNCH
- 13.30** Plastics in the ocean. Investigate types of plastics, set-up investigation to detect their effects on a taonga species (mussels). Litter intelligence, compare across coastlines.
- 15.00** End of first day.

### Day 2

- 09.30** Introduction to the day, H&S
- 10.00** Dissect mussels and finish analysis of plastic effects.
- 11.00** Interval
- 11.20** Ocean acidification. Explore natural fluctuations of pH using live animals and plants to create a balanced ecosystem. Investigate sources of anthropogenic inputs.
- 13.00** Lunch
- 13.50** Investigate response in behaviour of a marine invertebrate, multivariate design with ocean warming and acidification. Analyse results with final review of the programme.
- 15.00** End of programme.