Marine Zone develops scientific inquiry knowledge, skills and confidence. Students learn to work scientifically and contribute to a longitudinal marine science study on the effectiveness of green zones in Moreton Bay east of Brisbane.

Marine Zone is a UNIFY Project for students in Year 7-8-9. It is available in Round 2 and Round 3. Schools can include students from one year level or form a composite group across Year 7-8-9.

The target group is students who would enjoy and benefit from extension in an environmentally-themed scientific inquiry project. Many schools use this project as an extension program for high achieving or gifted students. It can also be used as a tool to engage students who are coasting and may respond to a challenging science program.

NB: This project is available to schools in all regions.

- **Option 1** - includes a research voyage on board Inspiration with the team at Moreton Bay Environmental Education Centre. A staff member from your school accompanies your students. The cost is **$30 per student** plus any transport costs for minibus/train etc to travel to and from Manly Boat Harbour. **Places are limited!**
- **Option 2** – includes a virtual experience for students who cannot travel to Manly Boat Harbour in Moreton Bay east of Brisbane – no extra cost.

**Content & Assessment Guide**

<table>
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<tr>
<th>Week</th>
<th>Lesson Focus</th>
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| 1    | **Project Introduction, Technology Introduction**  
Introduction to the project content and web conferencing technology. |
| 2    | **IMPACT and Introduction to Scientific Inquiry Skills**  
Introduction to IMPACT workflow via an introduction to scientific inquiry skills. eLearn tour. |
| 3    | **Pre-assessment**  
To be advised. |
| 4    | **Introduction to Scientific Method & Study Area**  
Overview of scientific method of investigation. Overview of Moreton Bay. Interpreting data - mapping skills. |
| 5    | **Data & Questioning**  
Compare and contrast abiotic and biotic factors. Types of data collection. Formulating a scientific question. Hypothesising & predicting. |
| 6    | **Fair Testing**  
Identifying and classifying variables to design a controlled investigation. |
| 7    | **Research Voyage Briefing**  
Overview, expectations, practise data collection, measurement skills. Nature and development of marine science in Moreton Bay. |
| 8    | **Research Voyage**  
Collect Scientific Data - field trip on board Inspiration – MBEEC. Alternative activity for virtual tour. |
| 9    | **Analysis of data collected**  
Organising, manipulating and presenting data (tables & graphs). Determining patterns, trends and anomalies. |
| 10   | **Evaluating & Concluding**  
Drawing conclusions, evaluating data collected and experimental design. |
| 11   | **Post-assessment**  
To be advised. |
| 12   | **Where to From Here**  
Review, consolidate and extend on project learning. Celebrate success. |

**NB: This is a guide only – there may be minor changes.**

*Research voyage may occur on another week

**Key Points**

- Students participate in 1 x 60-70 min web conference per week and access online extension activities any time.
- Students connect with university and industry representatives via a special online event each round, including representatives from the School of Biological Sciences from the University of Queensland.

“The Marine Zone project has let me experience data collecting like a scientist, as the day on the boat was a very rare and enjoyable trip for us. Marine Science was fun and also taught me a lot of new things and scientific procedures that has to be done to create a fantastic scientific report.”

Student – Metro Region  
Marine Zone – 2014

“I am enjoying the marine science course as it is the most interesting course I have taken because I get to know more about the islands that surround us that we didn’t know much about.”

Student – SE Region  
Marine Zone – 2014

“We learnt about specific experimenting and food chains/web. I’m enjoying learning about all of the marine life and Moreton Bay itself.”

Student – Metro Region  
Marine Zone – 2014