

# ITINERARY

## Overboard and Underwater

## Year 10 Program

### Learning Intentions

As Environment Managers students will:

- Annotate maps identifying how rubbish moves through the system
- Record land use, observe marine debris and investigate possible impacts on marine environments
- Investigate how plastic interacts in a marine environment by collecting data and conducting a plankton trawl or sediment grab to find micro plastics
- Evaluate rubbish and other marine debris data by conducting a rubbish audit using a National Standard
- Analyse and interpret geographical data collected

### "Inspiring Champions for the Bay"

| Time        | Activity   |
|-------------|--|
| 9.15        | Students to meet at Bayside Park. Introductions to MBEEC staff.  |
| 9.15-11.15  | <i>Marine investigation and data collection.</i><br>Students board <i>Inspiration</i> , connect to place and observe environmental conditions of a marine environment. While on board, students collect abiotic data, analyse and sketch micro plastic samples and collect a marine sample. Using a plankton sample, students examine this under microscopes, identifying and sketching micro plastics and living organisms. |
| 11.15-11.45 | Lunch  |
| 11.45-12.45 | <i>Inquiry: What data can we collect to explain human impact?</i><br>Students explore Manly foreshore, survey land use, annotate maps and investigate how rubbish might travel through the environment.  |
| 12.45-1.45  | <i>Inquiry: How can data collection inform environmental management practices?</i><br><i>Citizen Science activity</i> – Students conduct a rubbish audit using the Tangaroa Blue method and national standard for rubbish audits.  |
| 1.45-2.10   | Collate audit data and discuss findings. Investigate possible management strategies for reducing marine debris and micro plastics in Moreton Bay.  |
| 2.15        | Board bus back to school.  |

### Students will need:

- Clipboard and pencil
- Covered footwear
- Sun-safe clothing and hat
- Sunscreen and insect repellent already applied
- Water bottle
- Morning tea and lunch

### Litter-free Lunch

We encourage students and staff to pack a litter-free lunch. Everything in it can be re-used, composted or recycled. Drinks are brought in refillable bottles.



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ENVIRONMENTAL EDUCATION CENTRE  
*Inspiring Champions for the Bay*



**Queensland  
Government**

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## Location Maps

William Gunn Jetty, Manly – Corner Fairlead Cres and Esplanade, Manly



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