

# MARINE STUDIES

## ELECTIVE



### Location

Minnamurra River

### Costs

\$15

### Special notes

A variety of suitable locations exist across the Illawarra. Please contact the IEEC to discuss the most local and appropriate location relative to your school

### Snorkelling

With prior notice and arrangement, snorkelling may be included as an additional activity, depending upon student numbers and an appropriate location.



### Inclement weather

If concerned please contact Steve Leake 0401267103 or Nikki Bodel 0416210542 at 6.45am on the day.

## PROGRAM OVERVIEW

This program aims to be highly tailored to meet the specific outcomes being taught in your course. The Illawarra region is fortunate enough to have a number of sites ideally suited for your next Marine Studies excursion. The timing, activities and learning sequence outlined in this program is indicative only. Please contact the IEEC to develop a specific program to target your relevant Focus Area and Content Strand.

## FOCUS AREAS AND CONTENT STRANDS

**Focus Area; Biology** - Module 2: *Mangroves*

**Focus area; Ecology** - Module 8: *Rock platforms*, Module 9: *Introducing Estuaries*, Module 12: *Temperate Marine Ecosystems*

**Focus Area; Leisure** - Module 15: *Water Craft*, Module 16 & 17: *Basic and Open Water Snorkelling*, Module 18: *Fish Harvesting*

## INDICATIVE SCHEDULE

Time	Activity
9.30	Students arrive, toilets, Acknowledgement of Country, introduction
9.45	Canoe introduction, safety, equipment etc
10.00	Canoe, kayak and SUP paddle commences
11.30	Recess
11.45	Study of relevant ecosystem (mangroves, rock platform etc)
1.00	Lunch
1.20	Fishing - rods, nipper pumps, scoop nets and waders
2.00	Students depart



## LEARNING EXPERIENCES

### Canoe, Kayak and Stand-Up Paddleboarding

Module 15 - During introduction and use, students develop an insight into the materials and processes used in the construction and maintenance of water craft. Students will also be introduced to elementary design and materials used in construction that dictate the performance of craft. Students develop and demonstrate the variety of paddle strokes need for efficient movement. During capsized practice, students learn the skills to perform and execute a basic rescue.

### Ecosystem Survey

Module 2 – Mangroves, develops an awareness of the scope and importance of mangrove communities in NSW. Students should consider the vulnerability of these communities and threats to them as the population increases in coastal areas.

Module 8 – Rock Platforms, introduces rock platforms and the animals and plants that commonly live there. Students are made aware of the harshness of the rock platform habitat and the adaptations that organisms living on it need for survival.

Module 9 – Introducing Estuaries, introduces the complexities and fragility of estuarine ecosystems. Students will be made aware of the importance of estuaries to the whole marine ecosystem. They will learn to appreciate the need to monitor and conserve estuaries.

### Fishing

Module 18 – Fish Harvesting, introduces the methods used to catch fish. Students will be required to relate each method to the behaviour and physiology of the animals being caught.

