

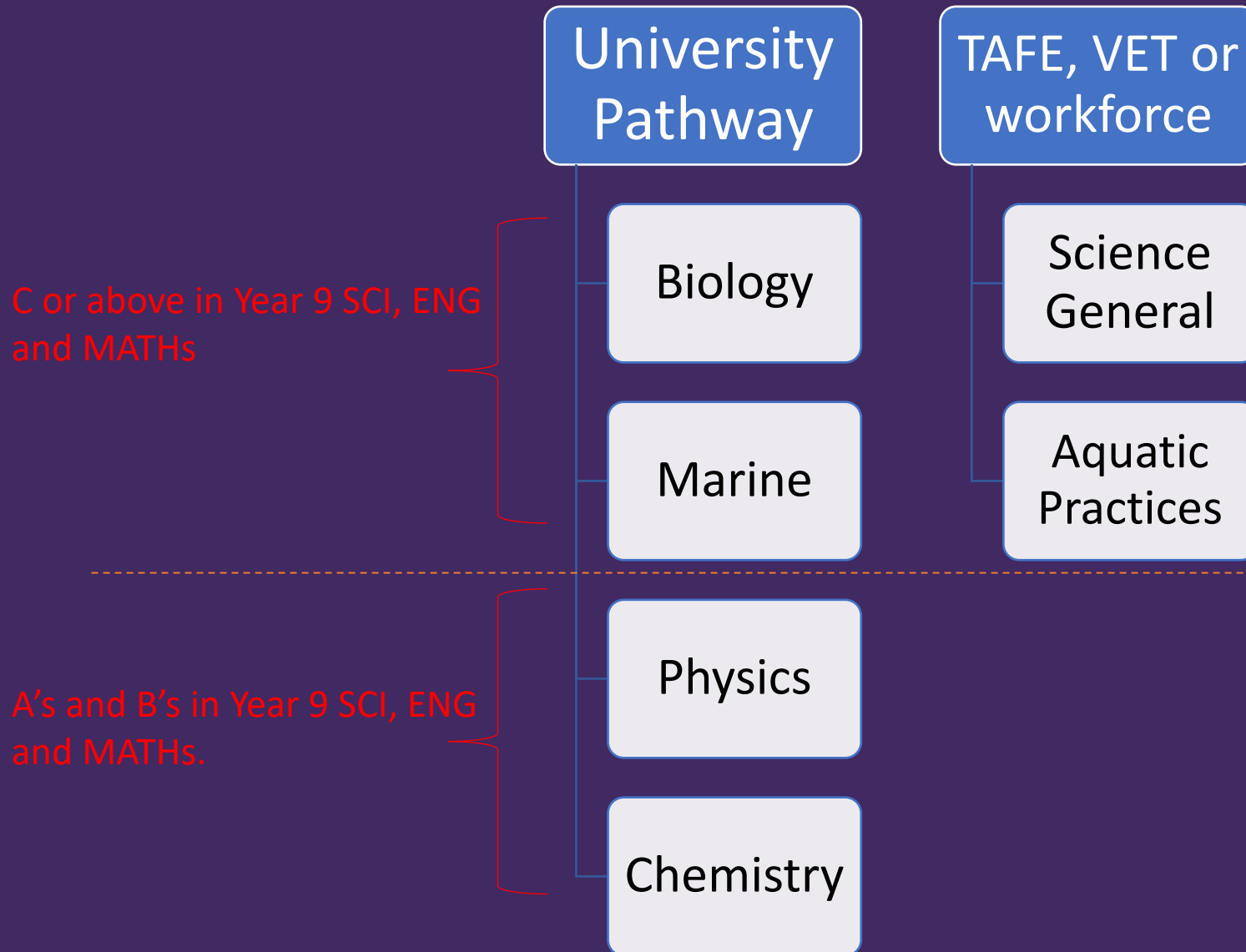


MERIDAN
STATE COLLEGE

Year 10 Science

Learning Today, Creating Tomorrow


Pathways in Year 10 Science



****10 General is a continuation from Year 9 & covers all strands**



Where do these Year 10 subjects lead in Year 11 and 12?

- 10 Biology → Senior Biology
- 10 Marine → Senior Marine (ATAR) or Aquatic Practices
- 10 Physics → Senior Physics
- 10 Chemistry → Senior Chemistry
- 10 Aquatic Practices → Senior Aquatic Practices
-  10 General → ***students can consider Aquatic Practices in YR 11/12*



Focus of Study



10 Biology

Cell Biology

Genetics & Evolution

Plant Physiology

Body Systems

10 Marine

Sustainable Fisheries

Rocky Shore Ecology

Marine Conservation

Water Quality

10 Chemistry

Periodic Table

Organic Chemistry

Stoichiometry

Redox Reactions

10 Physics

Motion

Universe

Mass and Force

Thermodynamics

10 Science General

Physics

Biology

Chemistry

Earth and Space

10 Aquatic Practices

Sailing

Aquaculture

Dangerous Marine Creatures

Marine Turtles

Keep in mind
AQP has a
subject fee
~\$300



YR 10 Assessment Expectations



Science General

- Semester 1 Course:
 - Unit 1 Physics Exam – MQC and Short Response Q's (50%)
 - Unit 2 Biology Research Investigation – (50%)
- Semester 2 Course:
 - Unit 3 Chemistry Student experiment (50%)
 - Unit 4 Earth and Space Exam (50%)

*Word length approx. 600 -800 words
* Exams 60 – 90 mins

ATAR Courses (PHY, CHE, BIO, MAR)

- Unit 1 Data Test (10%)
- Unit 2 Student Experiment (20%)
- Unit 3 Research Investigation (20%)
- Unit 1-4 Examination (50%)

*Word length approx. 1000 -1500 words
* Exams 90– 120 mins



YR 10 Assessment Expectations



Aquatic Practices

- Semester 1 Course:
 - Unit 1 - Sailing Exam, MQC and Short Response Q's (25%)
 - Unit 2 Aquaculture - Investigation Project (25%)
- Semester 2 Course:
 - Unit 3 Dangerous Marine Animals – Written Report (25%)
 - Unit 4 Marine Turtles - Project Assignment (25%)





Marine Science (ATAR subject)

Marine Science provides opportunities for students to study an interdisciplinary science focusing on marine environments and the consequences of human influences on ocean resources.

Aquatic Practices (Applied subject)

Aquatic Practices provides opportunities for students to explore, experience, and learn practical skills and knowledge valued in the workplace and other marine settings.

Year 10

Students will complete the following assessments:

- data test (10%)
- student experiment (20%)
- research investigation (20%)
- external examination (50%).

Field work experience:

Excursion to Rocky Shore (Pt Cartwright)
Excursion to Currimundi Lake.

Assessments include:

- projects
- information reports
- exams.

Excursions/ camps:

Sailing skills – learn to sail at Noosa
Ecosystem investigation with an aquarium
Overnight at Sea life aquarium.

Where can Year 10 Science Lead?



Science subjects form pre-requisite studies for many career pathways including:

- ✓ Teaching
- ✓ Medicine and Allied Health e.g. Physiotherapy
- ✓ Engineering
- ✓ Environmental studies
- ✓ Vet Science
- ✓ Sport Science
- ✓ Australian Defense Forces
- ✓ Technical Trades and more...

To ensure you choose correctly consider

- Potential career pathways and consult the QTAC course guide <https://www.qtac.edu.au/publications/?c=the-year-10-guide-to-career-pathways-and-2023-tertiary-prerequisites&page=1>
- Consult your Science teacher/HOD/Guidance officer



Further Recommendations and Prerequisites



- ❑ All students moving into Science in Year 10 should have a **minimum pass** in Year 9 Science, and English and Maths.
- ❑ Students selecting the ATAR pre-entry subjects should have a **minimum B or above for Chem/Physics and C min for Biology/Marine** in Year 9 Science and a pass in Year 9 Maths and English.
- ❑ Students selecting **Physics** and **Chemistry** should also be completing **Maths Methods** in Year 10.



Do I have to continue to study Science in Year 10?



Short answer is no, however **we recommend Science** in Year 10 for most career pathways, especially trades.

Whatever you pick you chose it because **you like it** and because **you are good at it**.

