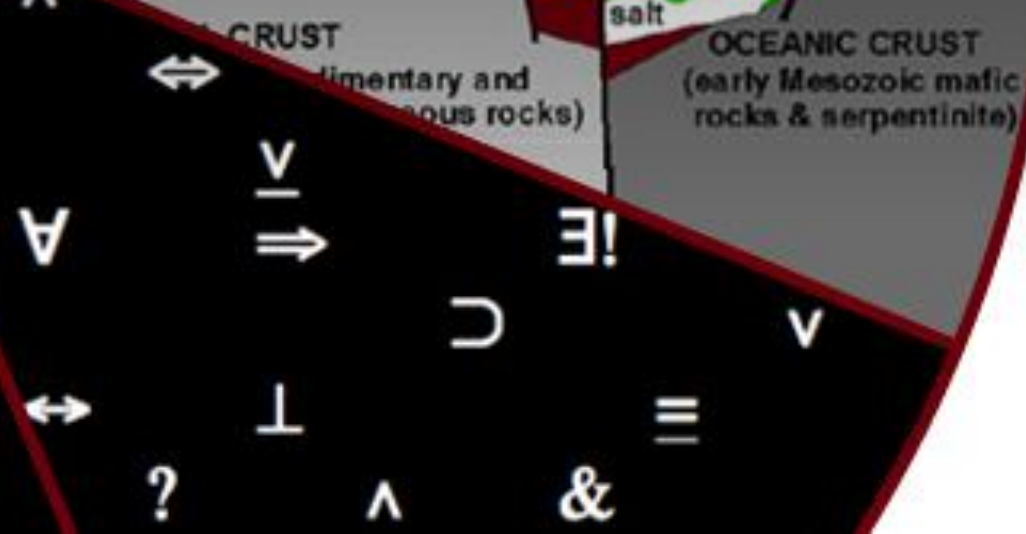
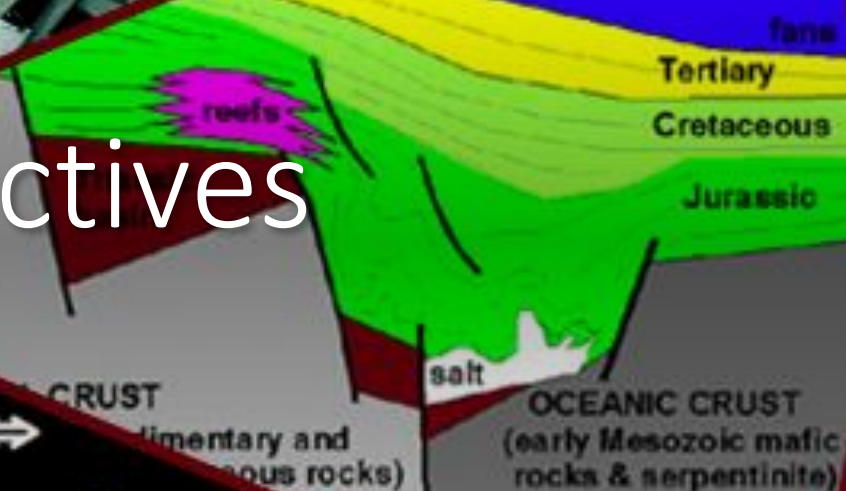
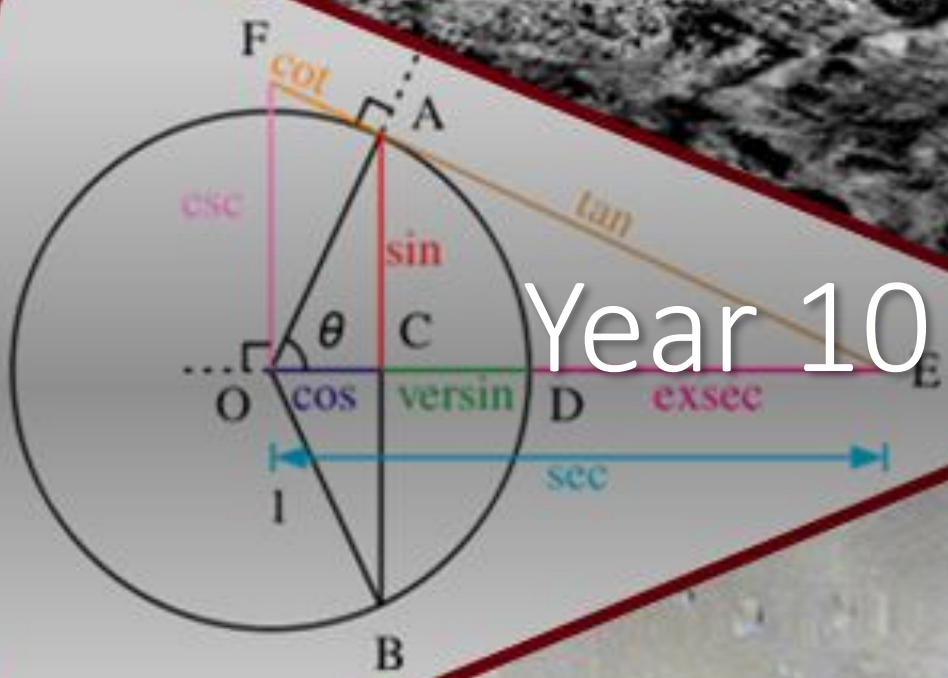


# Year 10 Science Electives

2024





# NOT ALL SCIENTISTS *wear* LAB COATS



# VCE SCIENCES – (Year 11 and 12)

- **Biology** is the study of the single cell to the whole living organism.
- **Chemistry** is the study of chemicals and chemical processes.
- **Environmental Science** is the study Earth's systems and how they are impacted by human uses.
- **Physics** is the study of the physical world. Energy, matter and motion.
- **Psychology** is the study of human behaviour.

What are the choices in year 10?

- There are 5 Science subjects on offer.

**Psychology and Biology**

**Physics and Chemistry**

**Physics and Environmental Science**

**Chemistry and Biology**

**Biology and Environmental Science**

How many can I choose?

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You need to pick at **least 1** Science elective

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You can select up to 3 more if you wish

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Each goes for 1 Semester



# Psychology and Biology

## What is this about?

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Do you have an interest in learning more about the brain, the nervous system, and how we think, feel and behave?

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This subject is ideal for those students wanting to gain a greater understanding of how the body regulates itself and investigate human behaviour.

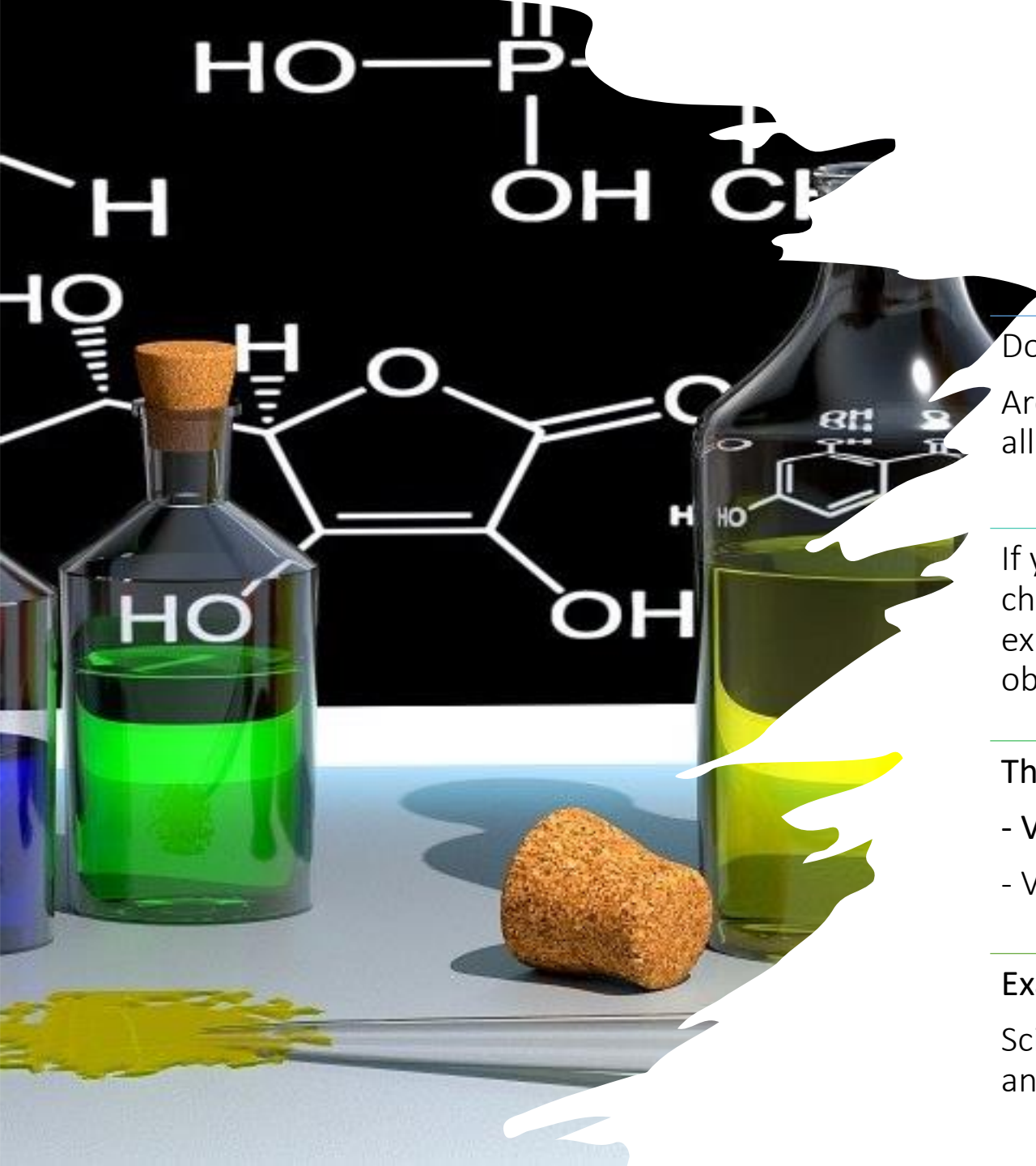
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This can prepare you for

- VCE Psychology
  - VCE Biology.
- 

Example careers: Psychology, Nurse, Counsellor, Science, Education, Biologist, Forensic investigator, Research and many more





# Physics and Chemistry

## What is this about?

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Do you enjoy doing investigations, experimenting with chemicals?

Are you interested in understanding the forces that impact on objects all around us?

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If you answered yes to the questions above, then this is a good science choice for you. In this unit, students participate in investigations to explore the elements and how they react with each other and also how objects move and the forces that act on them.

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**This can prepare you for**

- VCE Chemistry
- VCE Physics

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**Example Careers:**

Scientist, Engineer, Education, IT, Research, Pharmaceutical, medicine and many more



# Physics and Environmental Science

## What is this about?

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What is the Big Bang Theory? How big is the universe?

Can I get sucked into a Black Hole? What happens when a star explodes?

What is the greenhouse effect and how does it affect the world I live?

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If these are questions you have asked yourself, or hadn't thought of until now, but would like to know more, this is the subject for you.

The Physics in this unit focuses on the Universe and the structure of space, combined with Environmental Science, that will focus on Earth's path through space and the cycles that keep this planet alive.

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This can prepare you for

**VCE Physics and**

**VCE Environmental Science.**

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Example Careers:

Scientist, Education, Astronomer, Geologist, Climatologist, Engineer, Physicist, – there are many





# Chemistry and Biology

## What is this about?



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What is Life? What are the processes that keep us alive?



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This subject is ideal for those students wanting to know more about living organisms. To understand the processes that keep plants and animals alive. For students who want to understand more about how the systems in living things function.

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This can prepare you for VCE Biology and VCE Chemistry.

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Example Careers: Biologist, Medicine, Nursing, Veterinarian, Animal Studies, Engineering, Education and many more.



# Biology and Environmental Science

## What is this about?

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How did humans evolve? Where did we come from? How has the earth changed over the last 4 billion years? Why do my brothers and sisters look alike?

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**This subject is ideal for those students wanting to know more about the world they live in. Seeking answers to the questions stated above. Students will explore these ideas and study the structure and function of DNA to understand how characteristics can be inherited.**

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**This can prepare you**

VCE Biology

VCE Environmental Science

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Example careers: Medical, Veterinarian, Research Scientist, Environmental Scientist, Conservationist, Wildlife Officer, Ranger Ecologist, Marine Biologist, Zoologist, Education etc.

I don't know  
what I want to  
do so why  
should I pick  
more?

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All Science subjects provide so much more than content understanding. Selecting a range of Science units to cover all streams: Biology, Psychology, Environmental Science, Physics and Chemistry will ensure you leave your options wide open for Years 11 and 12.

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All science units develop skills in:

Scientific investigation skills, creative design and thinking, research, data collection, analysis skills, critical thinking skills and questioning.

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Science in all areas encourages you to think, question and seek reason for all life, movement, creation, action, forces, all around you.



There is no wrong choice for your year 10 Science subjects.

- Each science unit complements the other and content is not repeated in any unit. You are encouraged to pick more than 1 to cater for your interests.

