



VCE BIOLOGY



KEY QUESTIONS COVERED IN STUDY DESIGN

UNIT 1

How do organisms regulate their functions?

- How do cells function?
- How do plant and animal systems function?
- How do scientific investigations develop understanding of how organisms regulate their functions?

UNIT 2

How does inheritance impact on diversity?

- How is inheritance explained?
- How do inherited adaptations impact on diversity?
- How do humans use science to explore and communicate contemporary bioethical issues?

UNIT 3

How do cells maintain life?

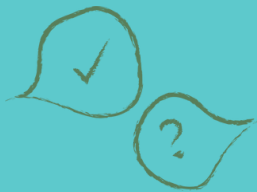
- What is the role of nucleic acids and proteins in maintaining life?
- How are biochemical pathways regulated?



UNIT 4

How does life change and respond to challenges?

- How do organisms respond to pathogens?
- How are species related over time?
- How is scientific inquiry used to investigate cellular processes and/or biological change?



BIOETHICAL UNDERSTANDING

Ethics is a way of thinking about right and wrong that helps guide our actions and decision-making. In the world of science, ethics is taught and developed to allow scientists to make informed judgements about how best to act in the interests of others.

Throughout Biology classes, assessments and exams, students will be required to employ ethics when answering questions and approaching problems.

KEY SCIENCE SKILLS

- Students design and conduct their own investigations
- Analysing and evaluating methodology and results of experiments
- Communicate scientifically



FUTURE PATHWAYS...

- Medicine & Nursing
- Laboratory Technician
- Veterinarian
- Dietitian
- Physiologist
- Allied Health Professions
- Landscape Architect
- Environmental Scientist
- Agricultural Scientist



WHAT DO THE STUDENTS THINK?

"It is satisfying when you understand the whole process and it all comes together"

"Biology takes time, effort and dedication"

"It is harder than you expect"

"Biology is relevant to our lives and is handy to know"

"Answers a lot of questions about how things in our life work"





VCE BIOLOGY FAQS

WHAT CAN I EXPECT FROM BIOLOGY CLASSES?

- Content delivery through multiple mediums
- Application activities and worksheets
- Hands on modelling when appropriate
- Experiments to apply and test concepts
- Collaboration with peers
- Independent work time
- Practice pop-quizzes

HOW WILL I BE ASSESSED IN BIOLOGY?

Experimental analysis and evaluation
Media analysis
Bioethical case study
Data analysis
Extended investigation

YEAR 12 STUDY SCORE
50% - UNIT 3&4 SACS
50% - UNIT 3/4 EXAM



ANY QUESTIONS?

Please don't hesitate to contact me with any questions that you have.

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ARE THERE ANY PREREQUISITES FOR BIOLOGY?

Year 10 Science
If wanting to accelerate - high effort and achievement in Year 9 Science

Be willing to:

- put in the work
- try your best



SHOULD I PICK BIOLOGY?

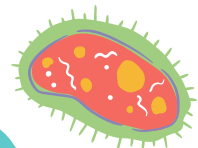
Short answer:

- YES, it's super interesting

Long answer:

- Biology is very fascinating. It is also intricate and detailed.
- There is a lot of biology specific language - it will take time and effort to be familiar with it.
- It is not enough to know the content - we will work hard to practice applying the content in different situations.

If you can get on board with these points, then Biology is for you.



WANT TO KNOW MORE ABOUT WHAT IS COVERED IN EACH UNIT?

Download the VCE Biology Study Design at the following link:
bit.ly/VCEbioSD