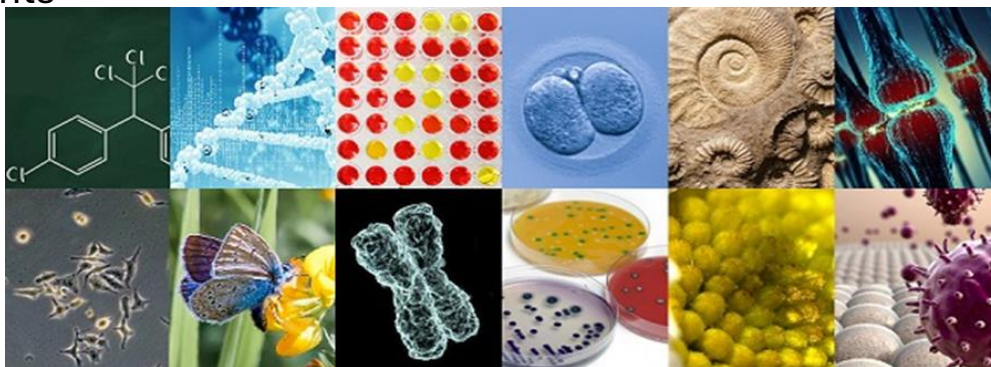


BIO215123 Biology 2

15 TCE Points



You will work through the following units as part of Biology 2

Unit 1: Environmental interactions

Students will develop an understanding of ecosystem dynamics and the human impact on the environment. Students will use classification keys to identify organisms and links to evolution.

Unit 2: Cell biology

Students will study plant and animal cells, focusing on how cell structure relates to function. The biochemical processes of photosynthesis and respiration within cells will be investigated.

Unit 3: Multicellular organisms

Students will identify how multicellular organisms reproduce and consist of several organ systems that enable the exchange of matter and energy with their immediate environment.

Unit 4: Scientific method and biological inquiry

Students will design and conduct safe and ethical experiments, collecting reliable data, which will be presented in scientific reports.

Unit 5: Science as a human endeavour

Students will study the advances in scientific understanding and technology and their influence on the social, economic, cultural and ethical aspects of society.

How you'll be assessed:

Common types of internal assessments are:

- Assignments
- Tests
- Practical tasks

Success criteria:

- Set and meet individual and collaborative goals within timeframes
- Access and communicate biological data and concepts
- Use science inquiry skills to design, conduct, analyse and communicate investigations
- Use scientific knowledge to explain the role of science in society

COMPLETION OF WORK POLICY

Assessment due dates are provided in the Program of Learning and on Canvas. Work must be submitted by the due date unless an approved extension has been granted. Unapproved late submissions will incur penalties as outlined in the *Completion of Work Policy*. Students needing extensions should contact their subject teacher before the due date with valid reasons, such as illness or unforeseen circumstances.

For more details refer to the Launceston College: [Completion of Work Policy](#).

ACADEMIC INTEGRITY

All senior secondary students in Tasmania are expected to uphold academic integrity, meaning they complete their work honestly and fairly. This includes properly referencing any ideas, images, or information borrowed from others, allowing teachers to distinguish between original and sourced content.

Assignments will be submitted through Canvas, email, hard copy as directed in the task sheet.

For more details, refer to the Launceston College: [Academic Integrity Policy](#).

REFERENCING

The Harvard referencing system is recommended for Biology 2. The standards for criterion 1 state that a student must:

- create appropriate reference lists/bibliographies and use in-text referencing.
- clearly identifies the information, images, ideas and words of others used in the student's work.

COURSE DOCUMENT

The TASC website provides considerable information about the course: [Biology - TASC](#)

OTHER COURSE REQUIREMENTS

Students are required to provide exercise books or folders to keep their work organised throughout the year.

Covered shoes must be worn to all lessons for safety purposes.

Personal laptops are encouraged but not essential as the College provides laptops.

Excursions are a requirement and permission forms must be completed.

PROGRAM OF WORK 2025

WEEK	DATE MONDAY	UNIT & TOPIC	ACTIVITIES, PRACTICALS & ASSESSMENTS	CRITERIA ASSESSED
1	3 Feb	Safety, Classification and Dichot. Keys	<i>ACTIVITIES: Classifying Stuff/Class key</i>	8
2	10 Feb	Ecosystem Concepts-Abiotic/Biotic Factors	Abiotic & Biotic Factors at College	1,2,8
3	17 Feb	Ecosystem Concepts- Human Impacts	Tamar River Walk & Report	1,2,4,8
4	24 Feb	Plant Structure-Transpiration/Photosynthesis	Transpiration & Photosynthesis Prac's	1,2,5,7
5	3 Mar	Ecosystem Concepts- Plant Adaptations	EXCURSION: Gorge Field Study	1,2,4,5,6,7
6	10 Mar	Ecosystem Concepts-Gorge Report	Gorge Report Cr 8 ECOSYSTEMS TEST	1,8
7	17 Mar	Cell Structure-plant & animal cells /microscopy	<i>Microscope use & safety</i>	
8	24 Mar	Cell Structure- Protists plant & animal cells	<i>Protists under the Microscope</i> <i>Identification & Functions of Cell Organelles</i>	2,5 5,6,7
9	31 Mar	Cell Structure-cell organelles	<i>Onion & Cheek Cells Prac</i>	2, 5
10	7 Apr	Cell Structure-cell organelles	Model Cells (or make a poster) Submit Term 1 Lab Manual	1,2,5 1,2,8
12th April -27th April TERM 1 HOLIDAYS				
11	28 Apr	Cell Processes-Diffusion & Osmosis	Dialysis Tubing Prac & Osmosis in Cells	1,2,6
12	5 May	Cell Processes- Surface Area: Volume	<i>Agar Diffusion Prac.</i>	5,6
13	12 May	Multicellular Organisms-Circulation	Cr 5 CELLS TEST <i>Measuring Your Blood Pressure</i>	1,5,6 5,6
14	19 May	Multicellular Organisms- Circulation	<i>Blood Typing Prac</i> Heart Dissection Prac.	5,6,7 1,2,5,7
15	26 May	Multicellular Organisms - Respiratory System	<i>Measuring Lung Capacity</i> Respiratory Disorders Research	6,7 1,2,4,5,6,7
16	2 Jun	Multicellular Organisms - Respiration	<i>Respiration in Yeast</i>	1,2,5,7
17	9 Jun	Multicellular Organisms -Digestion & Enzymes	<i>Pepsin & Rennin Pracs</i>	2,3,6,7
18	16 Jun	Multicellular Organisms -Circulatory /Respiratory/Digestive & Excretory Syst's	Sheep's Pluck Dissection Cr 6 BODY SYSTEMS TEST	1,2,4,5,6,7 C1, C5, C6
19	23 Jun	(Mid-Year Exams) Human Endeavour Assignment	Research- Scientific Knowledge & Medicine	1,2,5,6,7 1,3,5,6,7
20	30 Jun	(Mid-Year Exams)	Continue Research Submit Term 2 Lab Manual	
5th July – 20th July TERM 2 HOLIDAYS				
21	21 Jul	Biological Inquiry -Experimental Design	<i>Video and Question Sheet</i>	3
22	28 Jul	Biological Inquiry- Hypothesis Writing		
23	4 Aug	Biological Inquiry- IV's & DV's/Controls	Dissolving Aspirin Prac. Sci Method 'Assignment'	1,2,3 1,2,3
24	11 Aug	Individual Projects- topics & Risk Assessment	Individual Projects	1,2,3,4,6,7, 8
25	18 Aug	I.P's- research background info	Individual Projects	"
26	25 Aug	I.P's-setting up/recording data	Individual Projects	"
27	1 Sep	I.P's-report writing	Individual Projects	"
28	8 Sep	Individual Projects- Finish Report	Individual Projects	"
29	15 Sep	Multicellular Organisms-mitosis & meiosis	<i>Onion Root Tip Mitosis Prac</i>	2, 6,7
30	22 Sep	DNA/chromosomes/Inheritance	<i>Strawberry DNA Prac</i> Submit Term 3 Lab Manual	6,7 1,2,3,7
27th Sep- 12th Oct TERM 3 HOLIDAYS				
31	13 Oct	Multicell. Organisms-Sexual/Asexual Reprod.	Reproduction Assignment	1,5,7
32	20 Oct	Finish off all prac reports/assignments		all
33	27 Oct	Finalise all work	Results finalised	
34	3 Nov	Revision	Classes Finish 8 th Nov	
35 & 36	10 Nov- 17 Nov.	TASC EXAMS 10th – 20th November		

ASSESSMENT

Criterion-based assessment helps students see how well they're meeting course outcomes at the end of their study. While there is continuous feedback to guide learning, final assessments focus on showing what students have achieved by the end. Ratings are given as 'A', 'B', or 'C', based on course standards. A 't' indicates partial achievement below a 'C', and a 'z' means no evidence provided.

Schools follow TASC's quality assurance to keep standards consistent. More details are on the [TASC website](#). Final awards are based on both internal and TASC-supervised external assessments.

Criteria

The assessment for Biology level 2, will be based on the degree to which the learner can:

1. work independently and collaboratively towards goals
2. access, interpret and communicate biological data and information
3. undertake biological inquiry to generate and analyse data
4. describe the local, national, and global context for biological science
5. describe and use concepts of cell structure
6. describe and use concepts of cell processes
7. describe and use concepts of multicellular organisms
8. describe and use biodiversity and ecosystem concepts

Award Requirements

The minimum requirements for an award in Biology level 2, are as follows:

EXCEPTIONAL ACHIEVEMENT (EA) 6 'A' ratings, 2 'B' rating

HIGH ACHIEVEMENT (HA) 3 'A' ratings, 4 'B' ratings, 1 'C' rating

COMMENDABLE ACHIEVEMENT (CA) 4 'B' ratings, 3 'C' ratings

SATISFACTORY ACHIEVEMENT (SA) 6 'C' ratings

PRELIMINARY ACHIEVEMENT (PA) 4 'C' ratings

A student who otherwise achieves the ratings for a CA (Commendable Achievement) or SA (Satisfactory Achievement) award but who fails to show any evidence of achievement in one or more criteria ('z' notation) will be issued with a PA (Preliminary Achievement) award.