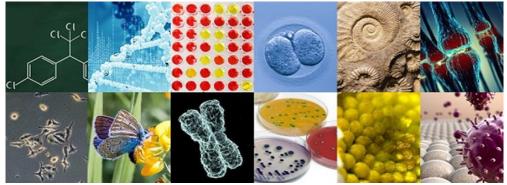
BIO215123 Biology 2

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

Note	PROGRAM OF WORK 2025					
1 3 Feb Safety, Classification and Dichot. Keys 2 10 Feb Ecosystem Concepts-Abiotic/Biotic Factors 3 17 Feb Ecosystem Concepts-Abiotic/Biotic Factors 4 ACTIVITES (EasilyIng Stuff/Class key 8 12 16 Feb Ecosystem Concepts-Human Impacts 1 17 Feb Ecosystem Concepts-Human Impacts 1 18 January 1 18 J	WEEK	DATE	UNIT & TOPIC	ACTIVITIES, PRACTICALS &	CRITERIA	
2		MONDAY		ASSESSMENTS	ASSESSED	
3	1	3 Feb	Safety, Classification and Dichot. Keys	ACTIVITIES: Classifying Stuff/Class key	8	
4	2	10 Feb	Ecosystem Concepts-Abiotic/Biotic Factors	Abiotic & Biotic Factors at College	1,2,8	
Sample	3	17 Feb	Ecosystem Concepts- Human Impacts	Tamar River Walk & Report	1,2,4,8	
Comparison	4	24 Feb	Plant Structure-Transpiration/Photosynthesis	Transpiration & Photosynthesis Prac's	1,2,5,7	
Cr. 8 ECOSYSTEMS TEST 7 17 Mar 8 24 Mar	5	3 Mar	Ecosystem Concepts- Plant Adaptations	EXCURSION: Gorge Field Study	1,2,4,5,6,7	
24 Mar Cell Structure-plant & animal cells / microscopy Protists under the Microscope 2,5	6	10 Mar	Ecosystem Concepts-Gorge Report		1,8	
plant & animal cells dentification & Functions of Cell Organelles 2,5	7	17 Mar	Cell Structure-plant & animal cells /microscopy	Microscope use & safety		
9 31 Mar Cell Structure-cell organelles Onion & Cheek Cells Proc 2, 5 10 7 Apr Cell Structure-cell organelles Model Cells (or make a poster) 1,2,5 Submit Term 1 Lab Manual 1,2,8 11 28 Apr Cell Processes-Diffusion & Osmosis Submit Term 1 Lab Manual 1,2,8 12 5 May Cell Processes-Diffusion & Osmosis Dialysis Tubing Prac & Osmosis in Cells 1,2,6 Cell Processes-Surface Area: Volume Agar Diffusion Prac. 5,6 Cell Processes-Surface Area: Volume Agar Diffusion Prac. 1,2,4,5,6,7 Cell Diffusion Prac. 1,2,3,6,7 Cell Diffusion Prac. 1,2,3,4,6,7,4,7,6,7 Cell Diffusion Prac. 1,2,3,4,6,7,4,7,6,7 Cell Diffusion Prac. 1,2,3,4,6,7,4,7,6,7 Cell Diffusion Prac. 1,2,3,4,6,7,4,7,6,7 Cell Diffusion Prac. 1,2,3,4,6,7,4,7,6,7,4,7,6,7,4,7,6,7,4,7,6,7,4,7,7,7,7	8	24 Mar	Cell Structure- Protists	,	2,5	
10 7 Apr			•		5,6,7	
12	9	31 Mar	Cell Structure-cell organelles	Onion & Cheek Cells Prac	2, 5	
11 28 April - 27°	10	7 Apr	Cell Structure-cell organelles	Model Cells (or make a poster)	1,2,5	
11 28 Apr Cell Processes-Diffusion & Osmosis Dialysis Tubing Prac & Osmosis in Cells 1,2,6 12 5 May Cell Processes- Surface Area: Volume Agar Diffusion Prac. 5,6 13 12 May Multicellular Organisms-Circulation Heart Dissection Prac. 5,6 14 19 May Multicellular Organisms-Circulation Blood Typing Prac 5,6 15 26 May System Multicellular Organisms - Respiratory System Heart Dissection Prac. 1,2,5,7 16 2 Jun Multicellular Organisms - Respiration Respiratory Disorders Research 1,2,4,5,6,7 17 9 Jun Multicellular Organisms - Digestion & Enzymes Pepsin & Rennin Pracs 2,3,6,7 18 16 Jun Multicellular Organisms - Circulatory Respiratory Digestive & Excretory Syst's Pepsin & Rennin Pracs 2,3,6,7 19 23 Jun (Mid-Year Exams) Human Endeavour Assignment Medicine 1,2,5,6,7 19 23 Jun (Mid-Year Exams) Research-Scientific Knowledge & Medicine 1,2,5,6,7 19 21 Jul Biological Inquiry - Experimental Design Video and Question Sheet 3 21 21 Jul Biological Inquiry - Iv/s & DV's/Controls Dissolving Aspirin Prac. 3,2,3 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 " 1,2,3,4,6,7, 8 25 18 Aug I.P's - research background info Individual Projects " 1,2,3,4,6,7, 3 26 25 Aug I.P's - research background info Individual Projects " 1,2,3,7,7 1,2,3,7 1,2,				Submit Term 1 Lab Manual	1,2,8	
12 5 May Cell Processes-Surface Area: Volume Agar Diffusion Prac. 5,6 13 12 May Multicellular Organisms-Circulation Measuring Your Blood Pressure 5,6 14 19 May Multicellular Organisms- Circulation Blood Typing Prac 5,6,7 15 26 May Multicellular Organisms - Respiratory System Respiratory Disorders Research 1,2,5,7 16 2 Jun Multicellular Organisms - Respiration Respiration in Yeast 1,2,5,7 17 9 Jun Multicellular Organisms - Respiration Respiration in Yeast 1,2,5,7 18 16 Jun Multicellular Organisms - Digestion & Enzymes 2,3,6,7 18 16 Jun Multicellular Organisms - Circulatory Fepsin & Rennin Pracs 2,3,6,7 19 23 Jun (Mid-Year Exams) Respiratory Disorders Research Multicellular Organisms - Circulatory Sheep's Pluck Dissection 7,4,5,6,7 19 23 Jun (Mid-Year Exams) Respiratory Pepsin & Rennin Pracs 2,3,6,7 19 23 Jun (Mid-Year Exams) Respiratory Disorders Research Scientific Knowledge & 1,2,5,6,7 19 30 Jun (Mid-Year Exams) Respiratory Disorders Research Scientific Knowledge & 1,2,5,6,7 19 21 Jul Biological Inquiry - Experimental Design Video and Question Sheet 3 20 28 Jul Biological Inquiry - Experimental Design Video and Question Sheet 3 21 2 Jul Individual Projects - topics & Risk Individual Projects 1,2,3 22 A Aug Biological Inquiry - Vi's & DV's/Controls Dissolving Aspirin Prac. Sci Method 'Assignment' 1,2,3 23 A Sag Individual Projects - topics & Risk Individual Projects 1,2,3,4,6,7,8 24 A Sag Individual Projects - Finish Report Individual Projects						
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Multicellular Organisms-Circulation Measuring Your Blood Pressure 5,6	12	5 May	Cell Processes- Surface Area: Volume	Agar Diffusion Prac.	5,6	
19 May Multicellular Organisms- Circulation Blood Typing Prac 1,2,5,7	13	12 May		Cr 5 CELLS TEST	1,5,6	
Heart Dissection Prac. 1,2,5,7			Multicellular Organisms-Circulation	Measuring Your Blood Pressure	5,6	
15	14	19 May	Multicellular Organisms- Circulation	Blood Typing Prac	5,6,7	
System Respiratory Disorders Research 1,2,4,5,6,7 16 2 Jun Multicellular Organisms - Respiration Respiration in Yeast 1,2,5,7 17 9 Jun Multicellular Organisms - Digestion & Enzymes 2,3,6,7 18 16 Jun Multicellular Organisms - Circulatory / Respiratory/Digestive & Excretory Syst's Cr 6 BODY SYSTEMS TEST C1, C5, C6 19 23 Jun Human Endeavour Assignment Medicine 1,3,5,6,7 20 30 Jun (Mid-Year Exams) Research- Scientific Knowledge & Medicine 1,3,5,6,7 21 21 Jul Biological Inquiry - Experimental Design Video and Question Sheet 3 22 28 Jul Biological Inquiry - Hypothesis Writing Biological Inquiry - Hypothesis Writing Biological Inquiry - Hypothesis Writing 1,2,3 24 11 Aug Biological Inquiry - Hypothesis Writing 1,2,3 25 18 Aug I.P's- research background info Individual Projects 1,2,3,4,6,7, Assessment 1,1,2,3,4,6,7, Assessment 1,1,2,3,4,					1,2,5,7	
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Enzymes 18 16 Jun Multicellular Organisms - Circulatory /Respiratory/Digestive & Excretory Syst's Cr 6 BODY SYSTEMS TEST C1, C5, C6 19 23 Jun (Mid-Year Exams) Research - Scientific Knowledge & Human Endeavour Assignment Medicine 1,2,5,6,7 20 30 Jun (Mid-Year Exams) Continue Research Submit Term 2 Lab Manual	16	2 Jun	Multicellular Organisms - Respiration	Respiration in Yeast	1,2,5,7	
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Submit Term 2 Lab Manual Sth July - 20th July TERM 2 HOLIDAYS			Human Endeavour Assignment	Medicine	1,3,5,6,7	
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Assessment 25				i		
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27 th Sep- 12 th Oct TERM 3 HOLIDAYS 31	30	22 Sep	DNA/chromosomes/Inheritance	Strawberry DNA Prac	6,7	
27 th Sep- 12 th Oct TERM 3 HOLIDAYS 31		<u> </u>		Submit Term 3 Lab Manual		
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35 & 10 Nov- TASC EXAMS 10 th – 20 th November	33	27 Oct	Finalise all work	Results finalised		
	34	3 Nov	Revision	Classes Finish 8 th Nov		
36 17 Nov.	35 &	10 Nov-	TASC EXAMS 10 th – 20 th November			
	36	17 Nov.				

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 <u>TASC website</u>. 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.