

Year 09 Science: Biology

Work rate calendar (WRC) 2025

Term 1

All students are expected to participate in all online lessons and complete all assessment as outlined in this Work rate calendar.

Teachers may adjust topics, class work, assessment and submission dates. Adjustments will be communicated via QLearn or during lessons.

Assessment Supervised assessment Summative exams are to be supervised by the student's official exam supervisor. Non-supervised assessment Students must sign declaration of academic integrity.

Week	Dates	Unit	Торіс	Class work / Assessment to be submitted
1/2	27 Jan – 7 Feb	Unit 01: Biology	Monday 27 January — Australia Day Holiday Homeostasis- thermoregulation and osmoregulation Homeostasis and its significance in living organisms. Regulating temperature through physiological processes. Osmoregulation: Functions of the kidneys and urinary system.	
3	10 Feb – 14 Feb		 The nervous system and Stimulus-response Model Main parts of the nervous system (CNS & PNS) Components of the stimulus-response model. The endocrine system Major glands of the endocrine system. Hormones and their target organs. Implications of hormonal imbalances. Control system: nervous vs endocrine 	
4	17 Feb – 21 Feb		Friday 14 February — Senior orientation day: Years 10–12 Regulating body sugar Insulin and glucagon regulating blood sugar levels. Consequences of imbalanced blood sugar regulation (e.g., diabetes). Negative and positive feedback mechanism Differentiate between negative and positive feedback loops Illustrate how feedback mechanisms regulate physiological processes	Mandatory quiz 5pm, 14 Feb 2025
5	24 Feb – 28 Feb		Immune system and body response to pathogens Immune system responding to pathogens. Feedback mechanism and immune system – the case of diabetes	
6	3 Mar – 7 Mar		Reproduction in plants and animals Sexual and asexual reproduction Plants sexual organs Animals sexual organs	SA1 Practice exam 5pm, 7 March 2025
7	10 Mar – 14 Mar	Unit 01: Biology	Fertilization Sex cells – gametes Fertilization in both plants and animals	
8	17 Mar – 21 Mar		Sexual reproduction and survival of species Revision	SA1 Final Exam 5pm, 21 st March 2025
9	24 Mar – 28 Mar		Monday 24 March – Wednesday 26 March — School camp: Years 7–8 SHE – Research Investigation on Pharmaceutical industry Feedback system disorder and pharmaceuticals	
10	31 Mar – 4 Apr		Thursday 3 April — Cross country / Fun run: Prep – Year 12	

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Year 9 Science

Work rate calendar (WRC) 2025

Term 2

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Assessment

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Week	Dates	Unit	Торіс	Class work / Assessment to be submitted
1	21 Apr –		Monday 21 April — Easter Monday	
	25 Apr		Friday 25 April — Anzac Day	
			Structure of atoms	
			Compare and contrast subatomic particles by mass and electric charge.	
2	28 Apr –		Chemical reactions	
	2 May		Describe chemical reactions	
			Balance chemical equations	
3	5 May –	Unit 2: Chemistry	Monday 5 May — Labour Day	Mandatory Practical –
	9 May	Ë	Law of Conservation of Mass	Conservation of Mass
		She	Understand law of conservation of mass	Check point 9 th May 2025
		2: (Observe the law of conservation of mass – plan & conduct a scientific	
		nit	investigation as a fair test.	
4	12 May –		SA2: Experimental Investigation	
	16 May		Modify Mandatory Practical – Conservation of Mass	
			Plan & conduct a scientific investigation as a fair test.	
5	19 May –		SA2: Experimental Investigation	SA2 Draft Due
	23 May		Analyse and communicate results	5pm, 23 rd May 2025
			Evaluate quality of data and identify improvements	
6	26 May –		Acis & Bases	
	30 May		Properties of acids & bases, measuring acidity, acid base reactions,	
			neutralisation	
7	2 Jun –		Acids & Bases and Explosive Chemical reactions	SA2 Final Due
	6 Jun		Practical– measuring pH of household substances, examine explosive	5pm, 6 th June 2025
		ίţ	chemical reactions.	
8	9 Jun –	Chemistry	Isotopes	
	13 Jun	hei	Atomic number and mass. Define isotopes, write isotopes using correct	
		i:	notation.	
9	16 Jun –	Unit 2:	Radioisotopes, half lives, radioactivity	
	20 Jun	U	Explain decay process of radio isotopes, find half lives of radioactive isotopes, list practical uses if radioisotopes.	
10	23 Jun –		Friday 27 June — Athletics carnival / Sports day: Prep – Year 12	
	27 Jun		Historical context of radioactivity and key scientists. Radioactivity -	
			Applications and Safety	

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Year 09 Science: Earth Sciences

Work rate calendar (WRC) 2025

Term 3

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Assessment

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Week	Dates	Unit	Торіс	Class work / Assessment to be submitted
1	14 Jul – 18 Jul	Unit 03: Earth Sciences	Exploring the four main global systems – the geosphere, hydrosphere, atmosphere and biosphere. • Describe the Earth's four main systems. • Explain how different systems interact • The carbon cycle and carbon reservoirs	
2	21 Jul – 25 Jul		The 3 main processes in the carbon cycle	
3	28 Jul – 1 Aug		Wednesday 30 July — SET plan meetings: Year 10 Greenhouse effect The role of carbon dioxide in maintaining temperature to supports life on earth. Natural and enhanced greenhouse effect Greenhouse gases (CO2) and it heat trapping capacity	
4	4 Aug – 8 Aug		 Investigating carbon footprint Understand carbon footprint – what is it and how is it measured? Trace the emission of greenhouse gases (CO2) through the lifecycle of a product. Introduce Research Investigation – Claim Research Investigation: Rationale 	
5	11 Aug – 15 Aug		Wednesday 13 August — Royal Queensland (Ekka) Show Holiday Developing Research Question Identify 3 secondary resources: • Authentic sources • Referencing sources Analyse evidence: identifying patterns and relationships • How to analyse data in graphs or tables	Check point 1: Rational and Research Question 5pm, 15 th August 2025
6	18 Aug – 22 Aug	Unit 03: Earth sciences	 Evaluating secondary sources Recency, Site, Author mentioned, method/data Drawing conclusion: Links to claim. Research question answered? 	SA3 Draft submission 5pm, 22 nd August 2025
7	25 Aug – 29 Aug		Working on feedback	
8	1 Sept – 5 Sept		Friday 5 September — Student free day Work on feedback	SA3 Final submission 5th September 2025
9	8 Sept – 12 Sept		Friday 12 September — Connect day: Years 7–8 Unit 4: Energy Transfer by Heat Particle nature of energy. Energy transfer and transformation.	
10	15 Sept – 19 Sept		Wednesday 17 September — Connect day: Years 9–10 Hear Transfer: Conduction, convection and radiation	

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LEGEND Class work — send-in Summative assessment Exam block



Year 9 Science

Work rate calendar (WRC) 2025

Term 4

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Assessment

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Week	Dates	Unit	Торіс	Class work / Assessment to be submitted
1	6 Oct –		Monday 6 October — King's Birthday Holiday	
	10 Oct		Energy transfer by heat	
			Revise and consolidate Particle behaviour in different states. Energy transfers and transformations.	
			Electricity: Particle nature of electricity. Current, voltage, resistance	
2	13 Oct –		Electricity	
	17 Oct	Title>	Electric circuits, series and parallel	
3	20 Oct -	\[\nabla_{}\]	Energy efficiency	
	24 Oct	Unit <x>: <title></td><td>Compare energy efficiency of different systems</td><td></td></tr><tr><td>4</td><td>27 Oct –
31 Oct</td><td>Unit</td><td>Energy transfer by sound Sound waves and the wave model</td><td></td></tr><tr><td></td><td>31 001</td><td></td><td>Sound as a longitudinal wave, how sound travels through different mediums,</td><td></td></tr><tr><td></td><td></td><td></td><td>the speed of sound, measure sound wave frequency and amplitude</td><td></td></tr><tr><td>5</td><td>3 Nov –</td><td></td><td>Energy transfer by light</td><td>Mandatory Quiz</td></tr><tr><td></td><td>7 Nov</td><td></td><td>Light waves and Electromagnetic Spectrum</td><td>5pm 7<sup>th</sup> November 2025</td></tr><tr><td></td><td></td><td></td><td>The electromagnetic spectrum, reflection, refraction, the speed of light</td><td></td></tr><tr><td>6</td><td>10 Nov –</td><td></td><td>Revision</td><td>SA4 Practice Exam</td></tr><tr><td></td><td>14 Nov</td><td></td><td>Review and consolidate</td><td>5pm, 14th November</td></tr><tr><td></td><td></td><td></td><td>SA4 Practice exam</td><td></td></tr><tr><td>7</td><td>17 Nov –</td><td></td><td>Friday 21 November — Aquatic carnival: Prep – Year 11</td><td>SA4 Final Exam</td></tr><tr><td></td><td>21 Nov</td><td></td><td>Revision</td><td>5pm, 21st November</td></tr><tr><td></td><td></td><td></td><td>Feedback, review and consolidate</td><td></td></tr><tr><td></td><td></td><td><u>6</u></td><td>SA4 Final exam</td><td></td></tr><tr><td>8</td><td>24 Nov –</td><td>Unit <x>: <Title></td><td>Friday 28 November — STEM Connect day: Years 5-9</td><td></td></tr><tr><td></td><td>28 Nov</td><td>X</td><td>Friday 28 November — Final day: Years 10–11</td><td></td></tr><tr><td></td><td></td><td>V
V</td><td>Energy Use and environment</td><td></td></tr><tr><td></td><td></td><td>Juj</td><td>Modelling Hydroelectric dam</td><td></td></tr><tr><td></td><td></td><td></td><td>Environmental impacts of dams</td><td></td></tr><tr><td>9</td><td>1 Dec –</td><td></td><td>Kinetic energy</td><td></td></tr><tr><td></td><td>5 Dec</td><td></td><td>Kinetic energy and mass</td><td></td></tr><tr><td></td><td></td><td></td><td>The Congo dam project</td><td></td></tr><tr><td>10</td><td>8 Dec –</td><td></td><td>Review and consolidate</td><td></td></tr><tr><td></td><td>12 Dec</td><td></td><td>Consolidate concepts on energy</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></title></x>		

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