

Year 7 Science Intensive: Physical Sciences

Work rate calendar (WRC) 2024

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	22 Jan – 26 Jan		Monday 22 January — Welcome calls for students: Prep – Year 12 Wednesday 24 January — Learning for success: Prep – Year 12 Friday 26 January — Australia Day Holiday Introduction to Year 7 Science. Science Skills. Lab & Experiment Safety.	
2	29 Jan – 2 Feb		Exploring Forces. What are forces? Types of forces. Balanced and Unbalanced Forces. Net Force.	
3	5 Feb – 9 Feb		Friday 9 February — Senior orientation day: Years 10–12 Gravity What is gravity? Measuring mass & weight. Using a spring balance. Measuring gravitational forces – experiment. The effects of gravity on objects.	
4	12 Feb – 16 Feb	seou	Friction What is friction? The need for friction. Investigation - compare the friction of a variety of shoes on a floor surface Investigation - Friction & braking distance. Reducing friction.	
5	19 Feb – 23 Feb	Unit 1: Physical Sciences	Buoyancy, magnets, magnetic fields & electromagnetism What is Buoyancy? Investigation - Are things lighter in water? What does a magnet attract? Mapping the magnetic field. Making your own compass. Making an electromagnet.	Mandatory Quiz
6	26 Feb – 1 Mar	Unit 1: F	Virtual Mousetrap Racer Interactive task - mousetrap racer travelling on different surfaces - plan, conduct and communicate an investigation.	Virtual Mousetrap Racer
7	4 Mar – 8 Mar		Scientific Investigation - Balloon Powered Vehicle Summative Assessment Task	SA1 Draft Due by 8 th March
8	11 Mar – 15 Mar		Assessment Completion and Submission Scientific Investigation - Balloon Powered Vehicle Summative Assessment Task	
9	18 Mar – 22 Mar		Monday 18 March – Wednesday 20 March — School camp: Years 7–8 Exploring simple machines Levers, Pulleys, Wheel and Axle, Wedge, Inclined Plane and Screw.	SA1 Final Due by 22 nd March
10	25 Mar – 29 Mar		Thursday 28 March — Cross country / Fun run: Prep – Year 12 Friday 29 March — Good Friday Applications of simple machines – bow and arrows, spear throwers, catapults	



Year 7 Science Intensive: Earth Sciences

Work rate calendar (WRC) 2024

Term 2

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1	15 Apr –		Introduction	
	19 Apr		Exploring the Solar System.	
2	22 Apr –		Thursday 25 April — Anzac Day	
	26 Apr		Relative positions and movement of Earth, Sun and Moon	
			Rotations and orbits of the Earth and Moon relative to the Sun.	
3	29 Apr –		Day and Night	
	3 May		Demonstrate changes in daylight hours and the seasonal temperature change.	
4	6 May –		Monday 6 May — Labour Day	
	10 May		Phases of the Moon and Cultural Perspectives	QLearn Unit 2 Mandatory
			Changes of the Moon phases relative to the Sun and Earth.	Quiz – Earth Science
		10	Stories about the Moon and Sun from other cultures.	
5	13 May –	Sciences	Tides	
	17 May	ien	What causes tides? How tides relate to phases of the Moon and the difference	
			between spring tides and neap tides.	
6	20 May –	Unit 2: Earth	Eclipses, Seasons and Revision	
	24 May	<u>й</u>	Lunar and Solar Eclipses.	
		it 2	Causes of seasons.	
		D	Revise for exam.	
7	27 May –		Practice Exam and Summative Exam	Practice Exam due 29 ^{th May}
	31 May		SA2 Earth Science Exam	SA2 Exam due Friday 31stMay
8	3 Jun –		Invetsigating Fossil Fuels	
	7 Jun		Renewable and Non-renewable resources.	
9	10 Jun –		Renewable Energy Project: Formative Task	
	14 Jun		Examine renewable energies.	
			Choose and investigate a type of renewable energy.	
10	17 Jun –		Friday 21 June — Athletics carnival / Sports day: Prep – Year 12	
	21 Jun		Renewable Energy Project: Presentation	
			Share research projects.	



Year 7 Science Intensive: Chemical Sciences

Work rate calendar (WRC) 2024

Term 3

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Week	Dates	Unit	Торіс	Class work / Assessment to be submitted
1	8 Jul – 12 Jul		States of Matter & Particle Model	
2	15 Jul – 19 Jul		Pure Substances & Mixtures	
3	22 Jul – 26 Jul		Solutions & Solubility	
4	29 Jul – 2 Aug		Separating Mixtures Handpicking, magnetism, decantation, filtration, evaporation, distillation, chromatography	
5	5 Aug – 9 Aug	es	Separating Mixtures Handpicking, magnetism, decantation, filtration, evaporation, distillation, chromatography	
6	12 Aug – 16 Aug	Unit 3: Chemical Sciences	Wednesday 14 August — Royal Queensland (Ekka) Show Holiday Summative Assessment - Part A SCI_07_SA3 _Scientific Investigation -Separating a mixture – Part A	SA3 draft assessment Part A due Friday 16 th August SCI_07_SA3_Scientific Investigation -Separating a mixture – Part A
7	19 Aug – 23 Aug	Unit 3: 0	Water borne diseases, Explore Water Treatment Processes, Australian Drinking Guidelines	
8	26 Aug – 30 Aug		Friday 30 August — Student free day Summative Assessment – Part B & C SCI_07_SA3 _Scientific Investigation -Separating a mixture – Part B & C	SCI_07_SA3 _Scientific Investigation -Separating a mixture – Part B & C
9	2 Sept – 6 Sept		Assessment Completion and Submission	SA3 Final assessment due Friday 6 th September SCI_07_SA3 _Scientific Investigation -Separating a mixture – Part A, B & C
10	9 Sept – 13 Sept		Wednesday 11 September — Connect excursion: Years 7–9 Friday 13 September — Connect excursion: Years 10–12 Indigenous perspectives water consumption and conservation.	



Year 7 Science Intensive : Biological Sciences

Work rate calendar (WRC) 2024

Term 4

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Week	Dates	Unit	Topic	Class work / Assessment to be submitted	
1	30 Sept -		Classification		
	4 Oct		Patterns, Order and Organisation,		
			Linnaean hierarchal classification		
2	7 Oct –		Monday 7 October — King's Birthday Holiday		
	11 Oct		Classification		
			Classification changes due to improvements in microscopy		
			First Nations Australians classification systems		
3	14 Oct –		Monday 14 October – Wednesday 16 October — School camp: Years 9–10		
	18 Oct		Dichotomous Keys		
4	21 Oct –		Classification with structural features.	QLearn Unit 4 Mandatory	
	25 Oct		Explore vertebrate classification	Quiz - Classification	
		တ္က	Explore types of mammals. Explore invertebrate classification		
5	28 Oct –	nce	Food Webs & Ecological Pyramids.		
	1 Nov	cie	Feeding relationships & flow of energy and matter. Role of microorganisms.		
			<u>a</u>	Matter & Energy Flows in Ecosystems via pathways of food webs	
6	4 Nov –	v – :	Ecosystems.	SA4 Practice Exam	
	8 Nov	Biological Sciences	Relationships in ecosystems (predator-prey). Threats to Ecosystems (introduced species). Management of Ecosystems.	Due 8th November	
7	11 Nov –	: 4:	Revision & Summative Exam	SA4 Exam due Friday 15 th	
	15 Nov	Unit 4:		November	
8	18 Nov –		Friday 22 November — Aquatic carnival: Prep – Year 11		
	22 Nov		Friday 22 November — Final day: Years 10-11		
			Do we need to save the bees?		
			Introduction to the importance of bees. Pollination and Ecosystem Services		
9	25 Nov –		Biodiversity.		
	29 Nov		Human impacts on honeybees.		
10	2 Dec –		Engineering challenge		
	6 Dec		Design a solution to help declining bee species		
11	9 Dec –		Wednesday 11 December — Connect day: Years 7–9		
''	13 Dec		Engineering challenge		
			Design a solution to help declining bee species		