

# Year 7 Science: 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	Topic	Class work / Assessment to be submitted
1	22 Jan – 26 Jan	Unit 1: Physical Sciences	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	
			<b>Introduction to Year 7 Science. Science Skills. Lab &amp; Experiment Safety.</b>	
2	29 Jan – 2 Feb		<b>Exploring Forces.</b>	Supervisor's safety declaration signed and uploaded to QLearn
			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	
			<b>Gravity</b>	
			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		<b>Friction</b>	
		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	<b>Buoyancy, magnets, magnetic fields &amp; electromagnetism</b>	Mandatory Quiz	
		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.		
6	26 Feb – 1 Mar	<b>Virtual Mousetrap Racer</b>	Virtual Mousetrap Racer	
		Interactive task - mousetrap racer travelling on different surfaces - plan, conduct and communicate an investigation.		
7	4 Mar – 8 Mar	<b>Scientific Investigation - Balloon Powered Vehicle</b>	SA1 Draft Due by 8 <sup>th</sup> March	
		Summative Assessment Task		
8	11 Mar – 15 Mar	<b>Assessment Completion and Submission</b>		
		<b>Scientific Investigation - Balloon Powered Vehicle</b>		
		Summative Assessment Task		
9	18 Mar – 22 Mar	Monday 18 March – Wednesday 20 March — School camp: Years 7–8	SA1 Final Due by 22 <sup>nd</sup> March	
		<b>Exploring simple machines</b>		
		Levers, Pulleys, Wheel and Axle, Wedge, Inclined Plane and Screw.		
10	25 Mar – 29 Mar	Thursday 28 March — Cross country / Fun run: Prep – Year 12		
		Friday 29 March — Good Friday		
		<b>Applications of simple machines – bow and arrows, spear throwers, catapults</b>		

# Year 7 Science: Earth Sciences

## Work rate calendar (WRC) 2024

## Term 2

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

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

# Work rate calendar (WRC) 2024

## Term 3

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Assessment				
<b>Supervised assessment</b>		Summative exams are to be supervised by the student's official exam supervisor.		
<b>Non-supervised assessment</b>		Students must sign declaration of academic integrity.		
Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	8 Jul – 12 Jul	Unit 3: Chemical Sciences	<b>States of Matter &amp; Particle Model</b>	
2	15 Jul – 19 Jul		<b>Pure Substances &amp; Mixtures</b>	
3	22 Jul – 26 Jul		<b>Solutions &amp; Solubility</b>	
4	29 Jul – 2 Aug		<b>Separating Mixtures</b> Handpicking, magnetism, decantation, filtration, evaporation, distillation, chromatography	
5	5 Aug – 9 Aug		<b>Separating Mixtures</b> Handpicking, magnetism, decantation, filtration, evaporation, distillation, chromatography	<b>Mandatory Quiz</b>
6	12 Aug – 16 Aug		<b>Wednesday 14 August — Royal Queensland (Ekka) Show Holiday</b> <b>Summative Assessment - Part A</b> SCI_07_SA3 _Scientific Investigation -Separating a mixture – Part A	<b>SA3 draft (Part A) due</b> <b>By 16<sup>th</sup> August</b> SCI_07_SA3 _Scientific Investigation -Separating a mixture – Part A
7	19 Aug – 23 Aug		<b>Water borne diseases, Explore Water Treatment Processes, Australian Drinking Guidelines</b>	
8	26 Aug – 30 Aug		<b>Friday 30 August — Student free day</b> <b>Summative Assessment – Part B &amp; C</b> 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		<b>Assessment Completion and Submission</b>	<b>SA3 Final due</b> <b>by 6<sup>th</sup> September</b> SCI_07_SA3 _Scientific Investigation -Separating a mixture – Part A, B & C
10	9 Sept – 13 Sept		<b>Wednesday 11 September — Connect excursion: Years 7–9</b> <b>Friday 13 September — Connect excursion: Years 10–12</b> <b>Indigenous perspectives water consumption and conservation.</b>	

# Year 7 Science: Biological Sciences

## Work rate calendar (WRC) 2024

### Term 4

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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	Topic	Class work / Assessment to be submitted
1	30 Sept – 4 Oct	Unit 4: Biological Sciences	<b>Classification</b> Patterns, Order and Organisation, Linnaean hierarchal classification	
2	7 Oct – 11 Oct		<b>Monday 7 October — King's Birthday Holiday</b> <b>Classification</b> Classification changes due to improvements in microscopy First Nations Australians classification systems	
3	14 Oct – 18 Oct		<b>Monday 14 October – Wednesday 16 October — School camp: Years 9–10</b> <b>Dichotomous Keys</b>	
4	21 Oct – 25 Oct		<b>Classification with structural features.</b> Explore vertebrate classification Explore types of mammals. Explore invertebrate classification	<b>Mandatory Quiz</b>
5	28 Oct – 1 Nov		<b>Food Webs &amp; Ecological Pyramids.</b> Feeding relationships & flow of energy and matter. Role of microorganisms. Matter & Energy Flows in Ecosystems via pathways of food webs	
6	4 Nov – 8 Nov		<b>Ecosystems.</b> Relationships in ecosystems (predator-prey). Threats to Ecosystems (introduced species). Management of Ecosystems.	
7	11 Nov – 15 Nov		<b>Ecosystems &amp; catch up.</b>	<b>SA4 Practice Exam</b> Due 15th November
8	18 Nov – 22 Nov		<b>Friday 22 November — Aquatic carnival: Prep – Year 11</b> <b>Friday 22 November — Final day: Years 10–11</b> <b>Revision &amp; Summative Exam</b>	<b>SA4 Exam</b> Due 22 <sup>nd</sup> November
9	25 Nov – 29 Nov		<b>Alternate Program</b> Bees or Antarctic ecosystems	
10	2 Dec – 6 Dec		<b>Alternate Program</b> Bees or Antarctic ecosystems	
11	9 Dec – 13 Dec		<b>Wednesday 11 December — Connect day: Years 7–9</b> <b>Alternate Program</b> Bees or Antarctic ecosystems	

Disclaimer: Information contained in this document is correct at time of publishing.