

# Year 12 Science In Practice

## 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.

<b>Assessment</b>					
<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	22 Jan – 26 Jan	Unit 3: Consumer Science	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>Consumer Science</b>					
Introduce Module 5- Consumer Science					
Testing product claims					
2	29 Jan – 2 Feb		<b>Analysis</b>		
			Analyse a report by Choice on price and quality of products Plan IA1 investigation for Week 3 Evaluation of scientific product test		
3	5 Feb – 9 Feb		Friday 9 February — Senior orientation day: Years 10–12		
			<b>Introduction to mixtures</b>		
4	12 Feb – 16 Feb	Report on absorbency of paper towels Conduct tests and report on paper			
		<b>Mixtures and Solubility tests</b>			
		Mixtures - solutions, suspensions, colloids and emulsions Mixtures and emulsifiers worksheet Enzyme's worksheet			
5	19 Feb – 23 Feb	<b>IA1 Research Plan and Risk Assessment</b>			
Role of enzymes in cleaning products Review Assessment task sheet (IA1)					
6	26 Feb – 1 Mar	<b>Plan and conduct investigation on cleaning products</b>			
7	4 Mar – 8 Mar	<b>Assessment</b>		<b>IA1 Investigation Draft due Friday 8th March</b>	
		Continue investigation into cleaning products Prepare draft			
8	11 Mar – 15 Mar	<b>Review</b>			
Draft feedback and complete final test report					
9	18 Mar – 22 Mar	<b>Introduction Module 6: Microorganisms in food production.</b>			
Modern and ancient Food storage Techniques					
10	25 Mar – 29 Mar	Thursday 28 March — Cross country / Fun run: Prep – Year 12	<b>Submit plan of workplace visit</b>		
		Friday 29 March — Good Friday			
		<b>Review Assessment task (IA2) for Module 6.</b>			
Plan a visit to a workplace to observe safe food handling practices					

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### Term 2

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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	15 Apr – 19 Apr	Unit 3: Microorganisms in food	<b>Workplace visit to observe food handling</b> Working on workplace visit observations	
2	22 Apr – 26 Apr		Thursday 25 April — Anzac Day <b>IA2 Collection of Work</b>	<b>IA2 Collection of Work Task 1: Due Friday 26th April</b>
3	29 Apr – 3 May		<b>Practical: Cheese making</b>	
4	6 May – 10 May		Monday 6 May — Labour Day <b>Practical: Cheese making</b> Share cheese making photos	
5	13 May – 17 May		<b>IA2 Assessment</b> Complete cheese making journal	<b>IA2 Collection of Work Task 2: Due Friday 17th May</b>
6	20 May – 24 May	Unit 4: Extreme Sport	<b>Food handling techniques</b> Prepare script for podcast, answering questions on food poisoning	
7	27 May – 31 May		<b>IA2 Assessment</b> Complete IA2 Final assessment	<b>IA2 Collection of Work Task 3: Due Friday 31 May</b>
8	3 Jun – 7 Jun		<b>Introduce Module 7: Extreme Sports. Review Module 6</b> Science of extreme sports – forces, acceleration, deceleration	
9	10 Jun – 14 Jun		<b>Science of extreme sports</b> Energy transfers and transformations	
10	17 Jun – 21 Jun		Thursday 20 June — Senior formal: Year 12 Friday 21 June — Athletics carnival / Sports day: Prep – Year 12 <b>Introduce IA3 Collection of Work</b> Task 1 – research science and risks of chosen extreme sport	

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### Term 3

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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	8 Jul – 12 Jul	Unit 4: Extreme sport	<b>IA3 Collection of Work</b> Research science and risks of chosen extreme sport	
2	15 Jul – 19 Jul		<b>IA3 Collection of Work</b> Finalise IA3 Task 1 and submit	<b>IA3 Collection of Work Task 1: due Friday 19th July</b>
3	22 Jul – 26 Jul		<b>IA3 Collection of Work</b> IA3 Task 2- research "Science and risks of sky diving"	
4	29 Jul – 2 Aug		<b>IA3 Collection of Work</b> Analyse sky diving accident	
5	5 Aug – 9 Aug		<b>IA3 Collection of Work</b> Finalise IA3 Task 2- sky diving report	<b>IA3 Collection of Work Task 2: due Friday 9th August</b>
6	12 Aug – 16 Aug	Unit 4: Heat Efficient House	Wednesday 14 August — Royal Queensland (Ekka) Show Holiday <b>IA3 Collection of Work</b> IA3 Task 3 – research science and risks of high-altitude sports	
7	19 Aug – 23 Aug		<b>IA3 Collection of Work</b> Research high-altitude sports: risks, effects on health, precautions needed	
8	26 Aug – 30 Aug		<b>Mock exams: Year 12</b> Monday 26 August – Thursday 29 August Friday 30 August — Student free day <b>IA3 Collection of Work</b> Complete Task 3	<b>IA3 Collection of Work Task 3: due Friday 30th August</b>
9	2 Sept – 6 Sept		<b>Mock exams: Year 12</b> Monday 2 September – Friday 6 September	
10	9 Sept – 13 Sept		Friday 13 September — Connect excursion: Years 10–12 <b>Introduction Module 8: Heat efficient house. Introduce IA4 Investigation</b> Science of heat transfer and heat efficiency Types of insulation and how they work How to test effectiveness of insulation types Design experiment to test insulation types <b>Check risk assessment approval from your teacher</b>	<b>IA4 Plan and Risk assessment due 13th September.</b>

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### 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: Heat efficient houses	<b>IA4 Investigation</b> Student experiment: data collection	
2	7 Oct – 11 Oct		Monday 7 October — King's Birthday Holiday	<b>IA4 Investigation Draft report due: Friday 11th October</b>
			<b>IA4 Investigation</b> Data Analysis and write draft report	
3	14 Oct – 18 Oct		<b>IA4 Investigation</b> Respond to feedback on draft and work to complete final report	
4	21 Oct – 25 Oct		<b>Exams: Year 12</b> Monday 21 October – Friday 25 October	<b>IA4 Investigation Final due Friday 25th October</b>
			<b>IA4 Investigation</b> Respond to feedback on draft and complete final report	
5	28 Oct – 1 Nov		<b>Exams: Year 12</b> Monday 28 October – Friday 1 November	
			<b>Review and Feedback</b>	
6	4 Nov – 8 Nov		<b>Exams: Year 12</b> Monday 4 November – Friday 8 November	
7	11 Nov – 15 Nov		<b>Exams: Year 12</b> Monday 11 November – Wednesday 13 November Thursday 14 November — Graduation: Year 12 Friday 15 November — Final day: Year 12	
8	18 Nov – 22 Nov			
9	25 Nov – 29 Nov			
10	2 Dec – 6 Dec			
11	9 Dec – 13 Dec			