Year 10 Science

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	Topic	Class work / Assessment to be submitted
1	27 Jan – 31 Jan	Unit 1: Biology	Monday 27 January — Australia Day Holiday **Introduction** Become familiar with the 10 Science course.	
2	3 Feb – 7 Feb		**DNA and genes** Understand how traits are inherited.	
3	10 Feb – 14 Feb		Friday 14 February — Senior orientation day: Years 10–12 **Reproduction and variation** Compare asexual and sexual reproduction.	
4	17 Feb – 21 Feb		**Cell division- mitosis and meiosis** Understand the processes of cell division.	**Biology Mandatory Quiz**
5	24 Feb – 28 Feb		**Patterns of heredity** Understand the relationship between genes and patterns of inheritance.	
6	3 Mar – 7 Mar		**Predicting inheritance of traits** Investigate methods to predict the patterns of inheritance of traits	**SA1 Draft 7 March**
7	10 Mar – 14 Mar		**Practical 1- Drosophila simulation** Apply the principles of Mendelian inheritance by experimentation.	
8	17 Mar – 21 Mar		**Evolution by natural selection** Explain the change in species over time.	**SA1: Report (final) 21 March**
9	24 Mar – 28 Mar		**Mandatory Practical 2- Natural selection** Apply the principals of evolution by natural selection.	
10	31 Mar – 4 Apr		Thursday 3 April — Cross country / Fun run: Prep – Year 12 **Evolution case study** Understand how allele and phenotype frequency in populations can change over time.	**Mandatory Practical 2 (Stile)**

LEGEND | Class work — send-in | Summative assessment | Exam block | School events | Public holidays | Student free day

Year 10 Science

Work rate calendar (WRC) 2025 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	21 Apr – 25 Apr	Unit 2; Chemical science	Monday 21 April — Easter Monday Friday 25 April — Anzac Day **Atoms, elements and the Periodic Table** Investigate the structure of atoms and their organisation into the periodic table of elements.	
2	28 Apr – 2 May		**Electron configurations and ions** Investigate ions and the bonds they can form.	
3	5 May – 9 May		Monday 5 May — Labour Day **Periodic Trends** Investigate the trends in chemical properties found across the elements of the periodic table.	
4	12 May – 16 May		**Types of chemical reactions** Investigate chemical change as described by chemical reactions.	**Chemistry Mandatory Quiz**
5	19 May – 23 May		**Conservation of mass and balancing equations** Investigate the law of conservation of mass.	
6	26 May – 30 May		**Rate of reaction** Investigate the rate of chemical reactions.	**SA2 Practice Data test 30 May**
7	2 Jun – 6 Jun		**SA2 Data test** Complete assessment	**SA2 Data test 6 June**
8	9 Jun – 13 Jun		**Mandatory Practical 3- Reaction rate** Conduct a given student experiment and write up the results in a report.	**Mandatory Practical 3 (Stile)**
9	16 Jun – 20 Jun		**Mandatory Practical 4- Reaction Rate modified** Plan and conduct a modified student experiment.	
10	23 Jun – 27 Jun		Friday 27 June — Athletics carnival / Sports day: Prep – Year 12 **Mandatory Practical 4 – Reaction Rate modified** Complete modified student experiment.	**Mandatory Practical 4**

LEGEND | Class work — send-in | Summative assessment | Exam block | School events | Public holidays | Student free day

Year 10 Science

Work rate calendar (WRC) 2025 Term 3

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	14 Jul – 18 Jul	Unit 3: Physics	**Introduction to energy** Forces, energy, energy transfers, and energy transformations	
2	21 Jul – 25 Jul		**Speed and Velocity** Explore the concepts of speed and velocity.	
3	28 Jul – 1 Aug		**Acceleration** Investigate the acceleration of objects.	
4	4 Aug – 8 Aug		**Mandatory Practical 5 - Speed** Conduct a given student experiment and write up the results in a report.	**Physics Mandatory Quiz**
5	11 Aug – 15 Aug		Wednesday 13 August — Royal Queensland (Ekka) Show Holiday **Kinetic and gravitational potentail energy** Investigate kinetic and gravitational potential energy.	SA3 Student Experiment released to students
6	18 Aug – 22 Aug		**Mandatory Practical 6 – Speed Modifcations** SA3 Student Experiment Plan and conduct a modified student experiment	
7	25 Aug – 29 Aug		**Mandatory Practical 6 – Speed Modifcations** SA3 Student Experiment Plan and conduct a modified student experiment	**SA3 Student Experiment Draft due**
8	1 Sept – 5 Sept		Friday 5 September — Student free day **Newton's First and Second Laws of Motion** Investigate Newton's first and second laws of motion	
9	8 Sept – 12 Sept		**SA3 Student Experiment** Final Submission Complete assessment and upload to Qlearn	
10	15 Sept – 19 Sept		Friday 19 September — Connect day: Years 11–12 **Newton's Third Law** Investigate Newton's 3rd law of motion.	**SA3 Student Experiment Final due**

LEGEND | Class work — send-in | Summative assessment | Exam block | School events | Public holidays | Student free day

Year 10 Science

Work rate calendar (WRC) 2025 Term 4

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	6 Oct – 10 Oct	Unit 4: Earth and space sciences	Monday 6 October — King's Birthday Holiday **Global systems** Investigate the four main global systems – the geosphere, hydrosphere, atmosphere, and biosphere.	
2	13 Oct – 17 Oct		**Energy and Ecosystems** Investigate ecosystems and how energy flows through the biosphere.	
3	20 Oct – 24 Oct		**The carbon cycle and the greenhouse effect**	
4	27 Oct – 31 Oct		**Climate and global warming** Investigate the Earth's climate and changes caused by global warming.	**Earth Science Mandatory Quiz**
5	3 Nov – 7 Nov		**The big bang theory** Investigate the Big Bang theory as a theoretical explanation for the origin of the universe.	
6	10 Nov – 14 Nov		**The life cycle of stars** Investigate the life cycle of stars.	**SA4 Practice Exam**
7	17 Nov – 21 Nov		**SA4 Exam**	**SA4 Final Exam**
8	24 Nov – 28 Nov		Friday 28 November — Final day: Years 10–11 **The sun and beyond** Investigate the sun and model ecosystems	
9	1 Dec – 5 Dec			
10	8 Dec – 12 Dec			

LEGEND | Class work — send-in | Summative assessment | Exam block | School events | Public holidays | Student free day