



CANBERRA HIGH SCHOOL - Learning overview for Term 1

Subject: Science

During Term 1, Year 9 will be exploring Chemical Sciences. In Science, students develop proficiency in; understanding, human endeavour and inquiry skills.

Students build and consolidate skills in:

- Problem solving
- Planning and conducting scientific investigations
- Investigating and constructing lab reports
- Analysing and applying data
- Understanding the relationships between scientific research, society, environment and technological developments

Most Work will be available through the Google Classroom and is expected to be completed in this platform. If you have any queries about the work posted on google classroom please contact teachers via email.

Week	Topic	Content/Activity/Tasks
1	Matter	<ul style="list-style-type: none">● Review content on pure substances, mixtures, elements and compound
2	Atomic structure	<ul style="list-style-type: none">● All matter is composed of atoms● Atoms consist of protons, neutron, and electrons
3	History of the atomic model	<ul style="list-style-type: none">● History of the development of the atomic model
4	Periodic table, element symbols and chemical formula	<ul style="list-style-type: none">● Review periodic table structure including element symbols and atomic number● Using chemical formula to identify elements and compounds
5	Test + Chemical reactions	<ul style="list-style-type: none">● Revision and Test● Chemical and physical change
6	Chemical reactions	<ul style="list-style-type: none">● Identifying chemical reactions● Conservation of mass
7	Energy changes in chemical reactions + practical assessment	<ul style="list-style-type: none">● Describing and identifying endothermic and exothermic reactions● Begin major assessment practical report
8	Practical report assessment	<ul style="list-style-type: none">● Continuing practical report assessment● Developing scientific inquiry skills
9	Isotopes and nuclear radiation	<ul style="list-style-type: none">● Describe that isotopes are variation of an element that differ in the number of neutrons● Unstable isotopes breakdown via nuclear radiation
10	Uses of radiation/half life and carbon dating	<ul style="list-style-type: none">● Explain that half-life is a measure decay based on nuclear stability, and predict half-lives of isotopes● Review positive and negative impacts of radiation