



SCIENCE YEAR 8

Learning Outcomes – **Qualitative Feedback**

SCI LOF 8.1 - Unit: HEALTHY LIVING - Focus: CELLS AND BODY SYSTEMS

- I can apply my understanding of a balanced diet and make healthy food choices.
- I can describe the structure and function of the human digestive system.
- I can describe the structure and function of the human breathing and circulatory systems.
- I can describe healthy and unhealthy lifestyle choices related to the breathing and circulatory systems.
- I can identify different types of useful and harmful microbes, and explain how natural barriers, hygiene, and medicine protect the body from disease.

SCI LOF 8.2 - Unit: ELEMENTS, COMPOUNDS & MIXTURES - Focus: CHEMICAL SCIENCE

- I can describe the periodic table as the list of elements and identify metals and non-metals.
- I can use the particle model to distinguish between elements, compounds and mixtures.
- I can distinguish between physical and chemical changes and represent simple chemical reactions using word equations.

SCI LOF 8.3 - Unit: SEPARATING MIXTURES - Focus: CHEMICAL SCIENCE

- I can distinguish between soluble and insoluble substances and investigate factors affecting solubility.
- I can select and perform appropriate separation techniques to obtain substances from different mixtures.

SCI LOF 8.4 - Unit: EXPLORING ENERGY & ELECTRICITY - Focus: PHYSICAL PROCESSES

- I can apply project-based learning skills to research, plan, and carry out investigations on energy and/or electricity.
- I can use digital tools responsibly and collaborate effectively with others.
- I can describe various forms of energy, their transformations, and efficiency in everyday life.
- I can construct and compare simple series and parallel circuits and apply electrical safety procedures.

SCI LOF 8.5 - Unit: FORENSIC SCIENCE - Focus: WHAT DO SCIENTISTS DO?

- I can apply scientific inquiry and cross-disciplinary skills to gather, analyse, and interpret physical evidence to solve problems.
- I can carry out chemical tests, to collect and compare evidence and form logical conclusions.
- I can name and identify the four types of human teeth and describe their function.
- I can describe how friction and air resistance effect everyday life situations.

SCI LOF 8.6 - Unit: LIGHT AND SOUND - Focus: PHYSICAL PROCESSES

- I can use ray diagrams to show how light travels in straight lines.
 - I can identify the main structures of the human eye and describe their functions.
 - I can and use particle theory to describe how sound travels by vibrations through solids liquids and gases.
 - I can describe the structure and function of the human ear and identify ways how hearing can be protected.
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