



STUDY GUIDE

Year 8 Science

TERM 1

Assessment

Tasks	End of a chapter
Inquiry report	End of a chapter
End of Chapter Test	End of chapter

Chapter	Content Description	Elaborations
Science Inquiry Skills Chapter 1 (1 week)	Questioning and predicting Planning and conducting Processing and analysing data and information Evaluating and Communicating	Formulate questions or hypotheses that can be investigated scientifically (ACSYS164) Plan, select and use appropriate investigation methods, include field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods (ACSYS165). Select and use appropriate equipment, include digital technologies, to systematically and accurately collect and record data (ACSYS166) Analyse patterns and trends in data, include describe relationships between variables and identify inconsistencies (ACSYS169) Use knowledge of scientific concepts to draw conclusions that are consistent with evidence (ACSYS170) Evaluate conclusions, include identify sources of uncertainty and possible alternative explanations, and describe specific ways to improve the quality of the data (ACSYS171). Critically analyse the validity of information in secondary sources and evaluate the approaches used to solve problems (ACSYS172) Communicate scientific ideas and information for a particular purpose, include construct evidence-based arguments and use appropriate scientific language, conventions and representations (ACSYS174)
Cells Chapter 2 (5 weeks)	Cells are the basic units of living things and have specialised structures and functions (ACSSU149)	<ul style="list-style-type: none"> ★ examine a variety of cells use a light microscope, by digital technology or by viewing a simulation ★ distinguish plant cells from animal or fungal cells ★ identify structures within cells and describe their function ★ recognise that some organisms consist of a single cell ★ recognise that cells reproduce via cell division ★ describe mitosis as cell division for growth and repair
Multi-cellular Organisms Chapter 3 (4 weeks)	Multi-cellular organisms contain systems of organs that carry out specialised functions that enable them to survive and reproduce (ACSSU150)	<ul style="list-style-type: none"> ★ identify the organs and overall function of a system of a multicellular organism in supporting the life processes ★ describe the structure of each organ in a system and relating its function to the overall function of the system ★ examine the specialised cells and tissues involved in structure and function of particular organs ★ compare similar systems in different organisms such as digestive systems in herbivores and carnivores, respiratory systems in fish and mammals