

Level Two Students can:	Level Three Students can:	Level Four Students can:	Level Five Students can:	Level Six Students can:
Investigate and understand changes that take place in animals and plant life cycles.	Investigate and describe patterns of variation in physical feature.	Discuss patterns of inheritance of genetically controlled characteristics.	Describe how genetic information is transferred from one generation to the next.	Explain cell division and how it allows for variation between different generations.
Understand the function of the main part of plants and animals	Describe and discuss how different structures and functions of plants/animals link together.	Investigate how particular structures and functions allow plants and animals to survive.	With reference to Cook Islands Plants and Animals investigate adaptation for survival.	Consider how plants and animals have changed over time to survive in different environment.
Use similarities and differences to group living organisms.	Distinguish between organisms within groups of living things.	Investigate systems of classification for living things.	Investigate the microscopic world.	Describe and discuss helpful and harmful micro-organisms.
Observe and describe the response of plants/animals to change in the environment (either natural or man-made).	Describe how a range of Cook Islands plants and animals live.	Discuss the effects of human intervention on a local system.	Investigate the different food chains, food webs and tropic levels of a local ecosystem.	Investigate how biological principles can be applied to plant and animal management
Explore easily observable trends in a range of different physical contexts.	Explore relationships in a range of different physical contexts.	Process and interpret data to describe or confirm trends or relationships.	Explain patterns of trends using processed data and accepted scientific theory.	Use patterns to make useful predictions. Carry out practical investigations controlling variables.
	Describe different forms of energy and investigate aspects of each.	Describe how energy can be transferred and transformed.	Discuss the model of waves in transfer of energy.	Discuss the applications of energy transfer.
Relate the physical properties of materials to their use.	Use properties to separate materials, for example state of matter, physical properties. Distinguish between elements, compound and mixtures.	Report on materials at an atomic level with reference to states of matter.	Investigate and group materials according to observations of their chemical properties, for example acidity, solubility, conductivity.	Investigate how chemicals can be grouped into families using chemical properties.
Describe common changes in substances, for example condensation, evaporation, dissolving, melting.	Examine and describe temporary and permanent permanent change in materials Examine the difference between chemical and physical change.	Investigate how substances can be changed chemically.	Find patterns in the chemical change of materials.	Investigate and describe factors that affect chemical and physical change.
Find out about major objects in our solar system. e.g. planets.	Investigate models of changing spatial relationships between the earth, sun and moon and how different cultures have used those relationships, for example tides, phases of the moon.	Extend their ideas about objects in space, for example stars and constellations.	Describe the technological devices used to investigate space and how these have changed our understanding overtime.	Explain spatial relationships in the night sky.
With reference to features of their local landscape investigate and describe how the earth has changed over long period of time.	Investigate cycles in the environment e.g. water, carbon, tides and how these can affect the landscape.	Investigate the structure of the earth and how the structure influences the landscapes, e.g. tectonic plates.	Describe the processes which change the earth's surface, for example volcanoes, earthquakes, weathering and erosion. Investigate how they have affected the local area.	Classify the rocks and minerals that make up the earth surface. Investigate the three major types of rocks