

National Profile Level 4-6 Science and SOSE Outcomes for Earth Quest

Level 4 Science Outcomes

STRAND	ORGANISER	OUTCOME	Evident when students, for example:	EARTH QUEST EXHIBITS
Earth and Beyond	Earth, sky and people	4.1 Examines ways scientists investigate the Earth, the solar system and the universe.	<ul style="list-style-type: none"> Identify uses of submersibles in exploring the oceans. 	Core Samples Exploring Earth Galaxy Gaze How Deep?
	The changing Earth	4.2 Identifies changes in the atmosphere and the interior of the Earth that cause catastrophic events.	<ul style="list-style-type: none"> Map the location of earthquake zones and explain their positions. Explain the changes that take place in a volcano. 	Earthquake Swirled World Tectonic Plates Volcanoes
	Our place in space	4.3 Locates and describes features of our universe.	<ul style="list-style-type: none"> Define galaxies, constellations and stars and find examples of each in the night sky. 	Galaxy Gaze The Solar System
Life and Living	Living together	4.7 Identifies events that affect balance in an ecosystem.	<ul style="list-style-type: none"> Describe how populations are naturally controlled within an ecosystem. 	Food Pyramids
	Biodiversity, change and continuity	4.9 Explains how living things have changed over geological time, using evidence from various sources.	<ul style="list-style-type: none"> Explain ways in which biodiversity in Australia is unique. Investigate how scientists use fossil evidence to make links between extinct animals and present-day animals. 	Fossil Finder Landscape Journey Plants in Place

Level 5 Science Outcomes

STRAND	ORGANISER	OUTCOME	Evident when students, for example:	EARTH QUEST EXHIBITS
Earth and Beyond	The changing Earth	5.2 Comments on the significance of the cycling of matter as a change process.	<ul style="list-style-type: none"> Describe patterns of global winds, air and ocean currents. 	Air Pressure Swirled World The Air Up There
Life and Living	Living together	5.7 Describes the role of living things in cycling energy and matter.	<ul style="list-style-type: none"> Draw a flow chart showing the transfer and transformation of material and energy through a food web. 	Food Pyramids
Life and Living	Structure and function	5.8 Presents evidence that plants and animals are made up of functional units called cells.	<ul style="list-style-type: none"> Identify similarities and differences in specimens of cells from various parts of plants and animals. 	Living Cells

Life and Living	Biodiversity, change and continuity	5.9 Identifies features of groups of living things that enable them to compete successfully in their environments.	<ul style="list-style-type: none"> Identify physical features that enable a species to compete successfully. Investigate some organisms' capacity to take advantage of environmental changes. 	Deep Sea Glow Evolution Plants in Place
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Level 6 Science Outcomes

STRAND	ORGANISER	OUTCOME	Evident when students, for example:	EARTH QUEST EXHIBITS
Earth and Beyond	The changing Earth	6.2 Prepares evidence to support current theories on the formation and geological history of the Earth.	<ul style="list-style-type: none"> Explain the theory of plate tectonics and the evidence for it. Describe theories of the internal structure of the Earth. List evidence for and underlying assumptions of theories about the evolution of the Earth. 	Exploring Earth Surface to Core Tectonic Plates
Life and Living	Living together	6.7 Analyses the effects of environmental change on living things and ecosystems.	<ul style="list-style-type: none"> Describe the effects on urban and agricultural ecosystems of extreme conditions. 	Evolution Plants in Place Urban Jungle

Level 4 SOSE Outcomes

STRAND	ORGANISER	OUTCOME	Evident when students, for example:	EARTH QUEST EXHIBITS
Place and Space	Features of places	4.4 Describes the association of features that give rise to similarities between places.	<ul style="list-style-type: none"> Locate key physical features of places (mountains, rivers, volcanoes, forests) in the northern and southern hemispheres. Locate places with similar climates, landforms or vegetation and draw generalisations to describe their location. 	Dig a Hole Landscape Journey Tectonic Plates
Natural and Social Systems	Natural systems	4.13 Describes responses of different elements (including people) to changes in natural systems.	<ul style="list-style-type: none"> Identify the purpose of adaptations of animals and plants to different environments. Identify examples of areas where a natural system has adapted or failed to adapt to changing conditions. 	Deep Sea Glow Evolution Ozone Plants in Place Urban Jungle

Level 5 SOSE Outcomes

STRAND	ORGANISER	OUTCOME	Evident when students, for example:	EARTH QUEST EXHIBITS
Place and Space	Features of places	5.4 Accounts for similarities and differences between places by identifying factors that may shape their features.	<ul style="list-style-type: none"> Suggest reasons for variations and similarities between different places in climate, vegetation, landforms and soil. 	Deep Sea Glow Earthquake Landscape Journey Making Mountains Plants in Place Swirled World Tectonic Plates The Air Up There Volcanoes
Natural and Social Systems	Natural systems	5.13 Explains common and diverse features of various natural systems.	<ul style="list-style-type: none"> Explain differences between natural systems by referring to variations of inputs and outputs. 	Deep Sea Glow Landscape Journey

Level 6 SOSE Outcomes

STRAND	ORGANISER	OUTCOME	Evident when students, for example:	EARTH QUEST EXHIBITS
Place and Space	Features of places	6.4 Explains and predicts variations in places over time by referring to processes that may affect natural and built features.	<ul style="list-style-type: none"> Use knowledge of processes such as tectonic forces and weathering to suggest explanations for present landform features. Use knowledge of processes shaping climactic/vegetation/built features of places to suggest explanations for present observable features. 	Earthquake Evolution Landscape Journey Ozone Plants in Place Swirled World Tectonic Plates Urban Jungle Volcanoes
Natural and Social Systems	Natural systems	6.13 Explains the ways in which various natural systems interact on a global scale and the ways people affect them.	<ul style="list-style-type: none"> Use a model of the earth to explain atmospheric and ocean current patterns. 	Air Pressure Ozone Seasons in a Spin Swirled World The Air Up There Turn the Tides What Weather?