

### *Awesome Earth National Profile curriculum links for secondary students*

<b>LEVEL 4 – SCIENCE</b>				
<b>Strand</b>	<b>Organiser</b>	<b>Outcome</b>	<b>Evident when students, for example:</b>	<b><i>Awesome Earth</i> exhibit</b>
Earth and Beyond	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"> <li>Map the location of earthquake zones and explain their positions.</li> <li>Explain the changes that take place in a volcano.</li> <li>Describe causes of catastrophic events such as earthquakes, volcanoes, cyclones and tidal waves, and report on their effects on people's lives.</li> </ul>	ALL
Energy and Change	Transferring energy	4.5 Identifies processes of energy transfer and conditions that affect them.	<ul style="list-style-type: none"> <li>Identify and name processes of energy transfer in everyday situations, using terms like working, heating, electric current, direct interaction, waves.</li> </ul>	At Fault Caged Lightning Convection Currents Epicentre Get the Drift Hot Air Make and Shake Moving Magma Tsunami Waves and Wobbles
	Energy sources and receivers	4.6 Identifies forms and transformations of energy in sequences of interactions.	<ul style="list-style-type: none"> <li>Give examples to illustrate the difference between energy transfer and energy transformation</li> </ul>	At Fault Convection Currents Earth Patterns Make and Shake
Natural and Processed Materials	Structure and properties	4.11 Uses models of the substructure of materials to explain their properties and behaviour.	<ul style="list-style-type: none"> <li>Take part in a role play of the behaviour of particles in a solid, liquid and gas.</li> <li>Demonstrate and explain the difference between solutions, suspensions and colloids.</li> </ul>	Bubble tower Convection Currents Hot Air Landslide Moving Magma Mud Pool Shifting Sands
Working Scientifically	Conducting investigations	4.14 Collects and records information as accurately as equipment permits and investigation purposes require.	<ul style="list-style-type: none"> <li>Recognise the need to use a variety of sources of information where an investigation requires a number of viewpoints.</li> </ul>	El Niño and La Niña Epicentre Quakemaker Richter Rumbler Volcano Tube - Prediction
<b>LEVEL 4 – STUDIES OF SOCIETY AND ENVIRONMENT</b>				
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"> <li>Locate key physical features of place (mountains, rivers, volcanoes, forests) in the northern and southern hemispheres.</li> </ul>	At Fault El Niño and La Niña Eruptor Get the Drift Structure of the Earth

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"> <li>Describe how stable plant communities develop on renewed land surfaces (lava flows, sand dunes, mine sites).</li> </ul>	Earth Patterns Lava Lumps Lava Tube Shifting Sands
<b>LEVEL 5 – SCIENCE</b>				
Earth and Beyond	Earth, sky and people	5.1 Identifies science ideas that we use in the development of our physical environment.	<ul style="list-style-type: none"> <li>Identify and describe the geological information needed in building.</li> </ul>	Cyclone Shelter Earthquake House Landslide Make and Shake River Run
	The changing Earth	5.2 Comments on the significance of the cycling of matter as a change process.	<ul style="list-style-type: none"> <li>Identify and name rocks according to their mode of formation.</li> <li>Describe patterns of global winds, air and ocean currents.</li> </ul>	El Niño and La Niña Hot Air Lava Lumps Lava Tube Turbulent Orb
Working Scientifically	Conducting investigations	5.14 Uses instruments and techniques to provide accurate and reliable results.	<ul style="list-style-type: none"> <li>Take enough measurements to gauge reliability.</li> </ul>	Epicentre Quakemaker Richter Rumbler
<b>LEVEL 5 – STUDIES OF SOCIETY AND ENVIRONMENT</b>				
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"> <li>Identify latitude, distance from sea, winds, pressure belts, mountain barriers as some of the factors affecting the climate of a place.</li> </ul>	At Fault El Niño and La Niña Eruptor Get the Drift
<b>LEVEL 6 – SCIENCE</b>				
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"> <li>Present evidence that Australia was once attached to other continents.</li> <li>Explain the theory of plate tectonics and the evidence for it.</li> </ul>	Convection Currents Get the Drift At Fault Moving Magma
Working Scientifically	Conducting investigations	6.14 Selects instruments and techniques to collect useful quantitative and qualitative information.	<ul style="list-style-type: none"> <li>Identify resources and judge whether they are useful.</li> </ul>	Epicentre Make and Shake Quakemaker Richter Rumbler
	Processing data	6.15 Uses information as a stimulus for further investigation or analysis.	<ul style="list-style-type: none"> <li>Propose an experiment to investigate the conclusions further.</li> </ul>	Eruptor Make and Shake River Run

**LEVEL 6 – STUDIES OF SOCIETY AND ENVIRONMENT**

Place and Space	Features of places	6.4 Explains and predicts variations over time by referring to processes that may affect natural and built features.	<ul style="list-style-type: none"> <li>• Use knowledge of processes such as tectonic forces and weathering to suggest explanations for present landform features.</li> </ul>	At Fault Cyclone House Earthquake House Earth Patterns Eruptor Get the Drift Make and Shake Moving Magma River Run Shifting Sands
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"> <li>• Use a model of the Earth to explain atmospheric and ocean current patterns.</li> <li>• Identify the interactions between natural sources and explain the global impact (on natural systems) of El Niño, volcanic explosions, cyclones.</li> </ul>	Convection Currents El Niño and La Niña Eruptor Hot Air Moving Magma Structure of the Earth Tornado Tsunami Turbulent Orb

<b>LEVEL 7 – SCIENCE</b>				
Working Scientifically	Processing data	7.15 Identifies the limitations of particular forms of information and analysis.	<ul style="list-style-type: none"> <li>Record information with consistent accuracy.</li> </ul>	Epicentre Quakemaker Richter Rumbler
<b>LEVEL 7 – STUDIES OF SOCIETY AND ENVIRONMENT</b>				
Place and Space	Features of places	7.4 Analyses patterns and processes to describe spatial variations of features on the Earth's surface.	<ul style="list-style-type: none"> <li>Refer to knowledge of factors and processes operating on the Earth's surface to explain characteristics of places.</li> </ul>	At Fault Earth Patterns Eruptor Lava Lumps Lava Tube Make and Shake River Run Shifting Sands