

**Western Australia Level 5-6 Science and Society & Environment Outcomes for Earth Quest**

**Level 5 Science Outcomes**

<b>STRAND</b>	<b>OUTCOME STATEMENT AND POINTERS</b>	<b>EARTH QUEST EXHIBITS</b>
<b>Earth and Beyond</b>	<p>The student understands models and concepts that explain earth and space systems, and that resource use is related to the geological and environmental history of the earth and universe.</p> <p>This will be evident when students, for example:</p> <ul style="list-style-type: none"> <li>• apply concepts and models to explain the formation and geological history of the earth, such as:               <ul style="list-style-type: none"> <li>- describe the formation of a major mountain range</li> <li>- apply tectonic plate theory to explain an earthquake.</li> </ul> </li> <li>• use models and concepts to explain components and features of the universe and how they might affect life on earth, such as:               <ul style="list-style-type: none"> <li>- describe the effect of development of an atmosphere on life on earth</li> <li>- explain neap tides</li> <li>- use various balls to show the relative motion of the earth around the sun and the moon around the earth.</li> </ul> </li> </ul>	Core Samples Earthquake Fossils Finder Galaxy Gaze Making Mountains Ozone Seasons in a Spin Size of Planets Spinning Sun Surface to Core Swirled World Tectonic Plates The Air Up There The Solar System Turn the Tides Volcanoes What Weather? What's in the Air?
<b>Life and Living</b>	<p>The student understands the models and concepts that are used to explain the processes that connect systems and lead to change.</p> <p>This will be evident when students, for example:</p> <ul style="list-style-type: none"> <li>• use concepts and models to explain processes that maintain balance in an ecosystem, such as:               <ul style="list-style-type: none"> <li>- apply concepts of energy flow and energy waste to understand why producers are usually the most numerous organism in a food pyramid.</li> <li>- explain interactions between living things and the external environment that occur over time.</li> </ul> </li> </ul>	Deep Sea Glow Evolution Food Pyramids Landscape Journey Plants in Place

## Level 6 Science Outcomes

STRAND	OUTCOME STATEMENT AND POINTERS	EARTH QUEST EXHIBITS
<b>Earth and Beyond</b>	<p>The student understands how concepts and principles are used to explain geological and environmental change in the earth and large-scale systems in the universe.</p> <p>This will be evident when students, for example:</p> <ul style="list-style-type: none"> <li>• explain how scientific concepts and principles are used to monitor change on the earth, such as:               <ul style="list-style-type: none"> <li>- explain how the principles of seismic wave reflection and refraction can be used to describe features in the earth's crust</li> </ul> </li> </ul>	Core Samples Earthquake Exploring Earth Fossils Finder Galaxy Gaze Making Mountains Ozone Seasons in a Spin Size of Planets Spinning Sun Surface to Core Swirled World Tectonic Plates The Solar System Turn the Tides Volcanoes What Weather? What's in the Air?
<b>Life and Living</b>	<p>The student understands the concepts and principles used to explain the effects of change on systems of living things.</p> <p>This will be evident when students, for example:</p> <ul style="list-style-type: none"> <li>* apply principles to explain the effects of environmental change on living things and ecosystems.</li> <li>* quantify relationships between systems, living things and the environment.</li> </ul>	Deep Sea Glow Evolution Food Pyramids Landscape Journey Ozone Plants in Place

### Level 5 Society & Environment

STRAND	OUTCOME STATEMENT AND POINTERS	EARTH QUEST EXHIBITS
<b>Place and Space</b>	PS5.2 The student understands that a range of factors, processes and values influences the interdependence of people and places.	Urban Jungle
<b>Natural and Social Systems</b>	NSS5.1 The student understands that the features of natural systems are a result of varying adaptations to their environment	Deep Sea Glow Evolution Food Pyramids Landscape Journey Plants in Place Urban Jungle

### Level 6 Society & Environment

STRAND	OUTCOME STATEMENT AND POINTERS	EARTH QUEST EXHIBITS
<b>Place and Space</b>	PS6.1 The student understands that variations in spatial patterns occur as the result of the interaction of various processes over time.	Earthquake Earthquake Tectonic Plates Volcanoes
<b>Natural and Social Systems</b>	NSS6.1 The student understands that people affect and are affected by the interaction between natural systems on a global scale.	Ozone Swirled World The Air Up There