

Our Changing World		
Title	Level*	Science Understandings
<p>Amazing Animal Survivors Discusses ways that animals adapt to survive in harsh environments such as places with extreme heat or cold, and places where there is a lot of competition for food. It also outlines how well-developed senses allow some animals to live in dark places and how some animals protect themselves from predators.</p>	Q	<p>BS (ACSSU73) Living things depend on each other and the environment to survive BS (ACSSU73) Interactions between living things may be competitive or mutually beneficial</p>
<p>Insects on the Move Explores the journeys of some amazing insects – monarch butterflies, globe skimmer dragonflies and bogong moths.</p>	Q	<p>BS (ACSSU72) Observations of living things as they move through their life cycles BS (ACSSU72) Stages of life cycles of different living things BS (ACSSU73) Plants provide shelter for animals NDS (ACHSHE061) Science involves making predictions and describing patterns and relationships</p>
<p>Everything Moves How laws of motion are seen in everyday events such as kicking a ball, sledding, sailing and roller-coasting. How contact and non-contact contact forces lead to movement and how this movement interacts with the force of gravity and the effects of friction. Introduces magnetism.</p>	R	<p>PS (ACSSU76) Forces can be exerted by one object on another PS (ACSSU76) Effect of friction on different surfaces PS (ACUSSU76) Effect of forces on the behaviour of an object</p>
<p>Solving Problems: Dams, Bridges and Canals Why build these structures? How are engineering challenges solved? Benefits of changing technologies. Exploring the history of canals, dams and bridges. Engineering feats – Panama Canal.</p>	R	<p>CS (ACSSU074) Uses of materials based on their properties ESS (ACSSU075) Earth’s surface changes over time as a result of natural process and human activity ESS (ACSSU075) Effects of flood and extreme weather on the landscape UIS (ACSHE062) Science knowledge helps people to understand the effect of their actions</p>
<p>It’s All About Energy Sources of electricity – fossil fuels, usage patterns, side effects. How sustainable is the present pattern of usage?</p>	S	<p>CS (ACSSU074) Nature and uses of common materials CS (ACSSU074) Uses of materials based on their properties DT (ACTDEK013) Suitability of materials, systems, components, tools and equipment for particular purposes UIS (ACSHE062) Science knowledge helps people to understand the effect of their actions</p>
<p>Our Moving Earth Earth’s system has structures and properties. Regions of earth have potential to cause earthquakes. Natural hazards can destruct and cause changes to landforms.</p>	S	<p>ESS (ACSSU075) Earth’s surface changes over time as a result of natural process and human activity ESS (ACSSU075) Rocks and fossils show evidence of changes in Earth’s surface features ESS (ACSSU075) Natural processes create changed or different landforms</p>

* Levels indicated by letters are comparable to the Guided Reading Levels of Fountas and Pinnell.

Home Shelters		
Title	Level*	Science Understandings
Animal Shelters Understanding that different animals found in different habitats have particular adaptations that help them to live in their habitat. How animals found in different habitats are suited to their environment.	Q	BS (ACSSU73) Living things depend on each other and the environment to survive GS (ACHASSK088) The importance of environments, including natural vegetation, to animals and people
Animal Architects Burrowing animals use concepts such as location, design, and safety when constructing underground homes.	R	BS (ACSSU73) Living things depend on each other and the environment to survive CS (ACSSU074) Nature and uses of common materials CS (ACSSU074) Uses of materials based on their properties GS (ACHASSK088) The importance of environments, including natural vegetation, to animals and people
Animals and their Ancestors The changes in plants and animals over time contrasted with species that have hardly changed.	R	BS (ACSSU72) Observations of living things as they move through their life cycles BS (ACSSU72) Differences between living, once living and products of living things BS (ACSSU73) Living things depend on each other and the environment
Nature's Rooming House How trees support life – case studies of coastal, desert and rainforest examples.	R	BS (ACSSU73) Living things depend on each other and the environment to survive BS (ACSSU73) Plants provide shelter for animals BS (ACSSU73) Roles of producers, consumers and decomposers in a habitat
Shells on their Backs Outlines the differences between turtles, tortoises and terrapins. Explains why some turtles and tortoises are endangered.	R	BS (ACSSU73) Living things depend on each other and the environment to survive GS (ACHASSK088) The importance of environments, including natural vegetation, to animals and people NDS (ACSHE061) Ways in which scientists gather evidence for their ideas and develop explanations UIS (ACSHE062) Science has contributed to a discussion about an issue such as loss of habitat for living things (human activity)
Living With the Tides Waves and tide patterns influence the structures and behaviors of organisms in intertidal zones. Living things have adaptations that help them survive in their habitats.	S	BS (ACSSU73) Living things depend on each other and the environment to survive BS (ACSSU73) Plants provide shelter for animals GS (ACHASSK088) The importance of environments, including natural vegetation, to animals and people UIS (ACSHE062) Science has contributed to a discussion about an issue such as loss of habitat for living things (human activity)

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Survival and Safety		
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<p>Awesome Oceans The oceans of the world are vital to all life on earth. Many animals live together in the ocean.</p>	Q	<p>BS (ACSSU73) Living things depend on each other and the environment to survive GS (ACHASSK090) The use and management of natural resources and waste, and the different views on how to do this sustainably SS01.4 World views recognise the dependence of living things on healthy ecosystems, and value diversity and social justice</p>
<p>Talented Animals Animals come in many different shapes and sizes and have different talents and skills. Their special characteristics help them to survive in their environments.</p>	Q	<p>BS (ACSSU73) Living things depend on each other and the environment to survive GS (ACHASSK088) The importance of environments, including natural vegetation, to animals and people</p>
<p>Wild, Wild Weather Harsh environments restrict people's ability to use them in the long term. Some people are challenged to adapt to and survive in these environments. They use technology to help them.</p>	Q	<p>ESS (ACSSU075) Earth's surface changes over time as a result of natural process and human activity ESS (ACSSU075) Effects of flood and extreme weather on the landscape</p>
<p>Adventures in Wild Places Harsh environments restrict people's ability to use them in the long term. Some people are challenged to adapt to and survive in these environments. They use technology to help them.</p>	S	<p>GS (ACHASSK088) The importance of environments, including natural vegetation, to animals and people DT (ACTDEK013) Suitability of materials, systems, components, tools and equipment for particular purposes UIS (ACSHE062) People such as clothing designers, builders or engineers use science to select appropriate materials for their work</p>
<p>How Animals Communicate Animals have means of communicating with members of their own species and other species. The behavior of individual organisms is influenced by internal cues (hunger) and external cues (environment changes). Humans and other organisms have senses to detect these cues.</p>	S	<p>BS (ACSSU73) Living things depend on each other and the environment to survive BS (ACSSU73) Interactions between living things may be competitive or mutually beneficial</p>
<p>The Salmon Stream All animals are different and have different life cycles. An ecosystem is a whole community of living things that depend on each other for survival. Tourism needs to be managed to lessen human impact on wilderness areas.</p>	S	<p>BS (ACSSU43) Structural features and adaptations of living things assist their survival SS01.2 All life forms, including human life, are connected through ecosystems on which they depend for their wellbeing</p>

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