



**Green Lane Diary 2012 Teaching Notes:
Australian Curriculum Alignment- Science
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SCIENCE - FOUNDATION LEVEL											
2012 GREEN LANE DIARY WEEKLY FOCUS	INTRO	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: Living things have basic needs, including food and water				✓						✓	
Earth and Space Sciences: Daily and seasonal changes in our environment, including the weather, affect everyday life	✓	✓				✓		✓			
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Science involves exploring and observing the world using the senses	✓	✓		✓		✓				✓	
SCIENCE INQUIRY SKILLS											
Questioning and predicting: Respond to questions about familiar objects and events	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Planning and conducting: Explore and make observations by using the senses	✓	✓		✓	✓	✓		✓		✓	
Processing and analyzing data and information: Engage in discussions about observations and use methods such as drawing to represent ideas	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Communicating: Share observations and ideas	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SCIENCE – YEAR 1											
2012 GREEN LANE DIARY WEEKLY FOCUS	Intro	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up/ Get Ready	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: Living things have a variety of external features				✓		✓				✓	
Biological Sciences: Living things live in different places where their needs are met				✓		✓				✓	
Earth and Space Sciences: Observable changes occur in the sky and landscape	✓	✓	✓	✓		✓		✓		✓	
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Science involves asking questions about, and describing changes in, objects and events	✓	✓	✓	✓		✓		✓	✓	✓	✓
Use and Influence of Science: People use science in their daily lives, including when caring for their environment and living things	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCIENCE INQUIRY SKILLS											
Questioning and predicting: Respond to and pose questions, and make predictions about familiar objects and events	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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Planning and conducting: Participate in different types of guided investigations to explore and answer questions, such as manipulating materials, testing ideas, and accessing information sources	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Planning and conducting: Use informal measurements in the collection and recording of observations, with the assistance of digital technologies as appropriate			✓	✓	✓	✓	✓	✓		✓	
Processing and analyzing data and information: Use a range of methods to sort information, including drawings and provided tables	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Processing and analyzing data and information: Through discussion, compare observations with predictions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Evaluating: Compare observations with those of others	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Communicating: Represent and communicate observations and ideas in a variety of ways such as oral and written language, drawing and role play	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SCIENCE – YEAR 2											
2012 GREEN LANE DIARY WEEKLY FOCUS	Intro	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up/ Get Ready	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: Living things grow, change and have offspring similar to themselves				✓						✓	
Earth and Space Sciences: Earth's resources, including water, are used in a variety of ways	✓	✓	✓	✓	✓	✓				✓	✓
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Science involves asking questions about, and describing changes in, objects and events	✓	✓	✓	✓		✓		✓	✓	✓	✓
Use and Influence of Science: People use science in their daily lives, including when caring for their environment and living things	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCIENCE INQUIRY SKILLS											
Questioning and predicting: Respond to and pose questions, and make predictions about familiar objects and events	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Planning and conducting: Participate in different types of guided investigations to explore and answer questions, such as manipulating materials, testing ideas, and accessing information sources	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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Planning and conducting: Use informal measurements in the collection and recording of observations, with the assistance of digital technologies as appropriate			✓	✓	✓	✓	✓	✓		✓	
Processing and analyzing data and information: Use a range of methods to sort information, including drawings and provided tables	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Processing and analyzing data and information: Through discussion, compare observations with predictions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Evaluating: Compare observations with those of others	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Communicating: Represent and communicate observations and ideas in a variety of ways such as oral and written language, drawing and role play	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SCIENCE – YEAR 3											
2012 GREEN LANE DIARY WEEKLY FOCUS	Intro	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up/ Get Ready	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: Living things can be grouped on the basis of observable features and can be distinguished from non-living things				✓		✓				✓	
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Science involves making predictions and describing patterns and relationships	✓	✓	✓	✓		✓		✓		✓	✓
Use and Influence of Science: Science knowledge helps people to understand the effect of their actions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCIENCE INQUIRY SKILLS											
Questioning and predicting: With guidance, identify questions in familiar contexts that can be investigated scientifically and predict what might happen based on prior knowledge	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: Suggest ways to plan and conduct investigations to find answers to questions	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: Safely use appropriate materials, tools or equipment to make and record observations, using formal measurements and digital technologies as appropriate			✓	✓		✓		✓		✓	



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Processing and analyzing data and information: Use a range of methods including tables and simple column graphs to represent data and to identify patterns and trends	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Processing and analyzing data and information: Compare results with predictions, suggesting possible reasons for findings			✓	✓		✓		✓		✓	✓
Evaluating: Reflect on the investigation, including whether a test was fair or not			✓			✓		✓		✓	✓
Communicating: Represent and communicate ideas and findings in a variety of ways such as diagrams, physical representations and simple reports	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SCIENCE – YEAR 4											
2012 GREEN LANE DIARY WEEKLY FOCUS	Intro	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up/ Get Ready	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: Living things have life cycles				✓		✓				✓	
Biological Sciences: Living things, including plants and animals, depend on each other and the environment to survive		✓		✓		✓				✓	
Earth and Space Sciences: Earth's surface changes over time as a result of natural processes and human activity		✓		✓		✓		✓		✓	
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Science involves making predictions and describing patterns and relationships	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Use and Influence of Science: Science knowledge helps people to understand the effect of their actions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCIENCE INQUIRY SKILLS											
Questioning and predicting: With guidance, identify questions in familiar contexts that can be investigated scientifically and predict what might happen based on prior knowledge	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: Suggest ways to plan and conduct investigations to find answers to questions	✓	✓	✓	✓		✓		✓		✓	✓



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Planning and conducting: Safely use appropriate materials, tools or equipment to make and record observations, using formal measurements and digital technologies as appropriate			✓	✓		✓		✓		✓	
Processing and analyzing data and information: Use a range of methods including tables and simple column graphs to represent data and to identify patterns and trends	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Processing and analyzing data and information: Compare results with predictions, suggesting possible reasons for findings			✓	✓		✓		✓		✓	✓
Evaluating: Reflect on the investigation, including whether a test was fair or not			✓			✓		✓		✓	✓
Communicating: Represent and communicate ideas and findings in a variety of ways such as diagrams, physical representations and simple reports	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SCIENCE – YEAR 5											
2012 GREEN LANE DIARY WEEKLY FOCUS	Intro	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up/ Get Ready	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: Living things have structural features and adaptations that help them to survive in their environment				✓		✓		✓		✓	
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena	✓	✓	✓	✓		✓		✓		✓	✓
Nature and Development of Science: Important contributions to the advancement of science have been made by people from a range of cultures	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Use and Influence of Science: Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Use and Influence of Science: Scientific knowledge is used to inform personal and community decisions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCIENCE INQUIRY SKILLS											



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Questioning and predicting: With guidance, pose questions to clarify practical problems or inform a scientific investigation, and predict what the findings of an investigation might be	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: With guidance, plan appropriate investigation methods to answer questions or solve problems	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: Decide which variable should be changed and measured in fair tests and accurately observe, measure and record data, using digital technologies as appropriate			✓	✓		✓		✓		✓	
Planning and conducting: Use equipment and materials safely, identifying potential risks			✓	✓		✓		✓		✓	
Processing and analyzing data and information: Construct and use a range of representations, including tables and graphs, to represent and describe observations, patterns or relationships in data using digital technologies as appropriate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Processing and analyzing data and information: Compare data with predictions and use as evidence in developing explanations			✓	✓		✓		✓		✓	✓
Evaluating: Suggest improvements to the methods used to investigate a question or solve a problem			✓			✓		✓		✓	✓
Communicating: Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SCIENCE – YEAR 6											
2012 GREEN LANE DIARY WEEKLY FOCUS	Intro	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up/ Get Ready	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: The growth and survival of living things are affected by the physical conditions of their environment				✓		✓				✓	
Earth and Space Sciences: Sudden geological changes or extreme weather conditions can affect Earth's surface	✓	✓		✓		✓		✓			
Physical Sciences: Energy from a variety of sources can be used to generate electricity	✓	✓	✓						✓		✓
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena	✓	✓	✓	✓		✓		✓		✓	✓
Nature and Development of Science: Important contributions to the advancement of science have been made by people from a range of cultures	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Use and Influence of Science: Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Use and Influence of Science: Scientific knowledge is used to inform personal and community decisions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCIENCE INQUIRY SKILLS											



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Questioning and predicting: With guidance, pose questions to clarify practical problems or inform a scientific investigation, and predict what the findings of an investigation might be	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: With guidance, plan appropriate investigation methods to answer questions or solve problems	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: Decide which variable should be changed and measured in fair tests and accurately observe, measure and record data, using digital technologies as appropriate			✓	✓		✓		✓		✓	
Planning and conducting: Use equipment and materials safely, identifying potential risks			✓	✓		✓		✓		✓	
Processing and analyzing data and information: Construct and use a range of representations, including tables and graphs, to represent and describe observations, patterns or relationships in data using digital technologies as appropriate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Processing and analyzing data and information: Compare data with predictions and use as evidence in developing explanations			✓	✓		✓		✓		✓	✓
Evaluating: Suggest improvements to the methods used to investigate a question or solve a problem			✓			✓		✓		✓	✓
Communicating: Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SCIENCE – YEAR 7											
2012 GREEN LANE DIARY WEEKLY FOCUS	Intro	1	2	3	4	5	6	7	8	9	10
	Our World Today	What's going on?	Power the Planet	Our Big Backyard	Live Green	Every Drop Counts	The 6 Rs	Harden Up/ Get Ready	Cool Citizens	Biodiversity	Destination Clean and Green
SCIENCE UNDERSTANDING											
Biological Sciences: There are differences within and between groups of organisms; classification helps organise this diversity				✓		✓				✓	
Biological Sciences: Interactions between organisms can be described in terms of food chains and food webs; human activity can affect these interactions		✓		✓		✓				✓	
Earth and Space Sciences: Some of Earth's resources are renewable, but others are non-renewable	✓	✓	✓	✓		✓	✓				✓
Earth and Space Sciences: Water is an important resource that cycles through the environment		✓				✓			✓		
SCIENCE AS A HUMAN ENDEAVOUR											
Nature and Development of Science: Scientific knowledge changes as new evidence becomes available, and some scientific discoveries have significantly changed people's understanding of the world	✓	✓	✓	✓	✓	✓		✓		✓	✓
Nature and Development of Science: Science knowledge can develop through collaboration and connecting ideas across the disciplines of science	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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Use and influence of Science: Science and technology contribute to finding solutions to a range of contemporary issues; these solutions may impact on other areas of society and involve ethical considerations	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Use and Influence of Science: Science understanding influences the development of practices in areas of human activity such as industry, agriculture and marine and terrestrial resource management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Use and Influence of Science: People use understanding and skills from across the disciplines of science in their occupations	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCIENCE INQUIRY SKILLS											
Questioning and predicting: Identify questions and problems that can be investigated scientifically and make predictions based on scientific knowledge	✓	✓	✓	✓		✓		✓		✓	✓
Planning and conducting: Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed			✓	✓		✓		✓		✓	
Planning and conducting: In fair tests, measure and control variables, and select equipment to collect data with accuracy appropriate to the task			✓	✓		✓		✓		✓	
Processing and analyzing data and information: Construct and use a range of representations, including graphs, keys and models to represent and analyse patterns or relationships, including using digital technologies as appropriate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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Processing and analyzing data and information: Summarise data, from students' own investigations and secondary sources, and use scientific understanding to identify relationships and draw conclusions			✓	✓		✓		✓		✓	✓
Evaluating: Reflect on the method used to investigate a question or solve a problem, including evaluating the quality of the data collected, and identify improvements to the method			✓			✓		✓		✓	✓
Evaluating: Use scientific knowledge and findings from investigations to evaluate claims		✓	✓			✓		✓		✓	✓
Communicating: Communicate ideas, findings and solutions to problems using scientific language and representations using digital technologies as appropriate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓