

Pearson Australia

Science Readers Alignment

Foundation–Year 5

Foundation.	1
Year 1.	2
Year 2	3
Year 3	4
Year 4	5
Year 5	6

All readers align to *Science Readers: Content and Literacy* kits.

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Achievement Standard			Resource Title
Science understanding	Biological sciences	AC9SFU01 observe external features of plants and animals and describe ways they can be grouped based on these features	<i>Living!</i>
			<i>Seeds</i>
			<i>Sort It</i>
			<i>Tell Me About It</i>
			<i>Baby Animals</i>
	Physical sciences	AC9SFU02 describe how objects move and how factors including their size, shape or material influence their movement	
Science as a human endeavour	Use and influence of science	AC9SFH01 explore the ways people make and use observations and questions to learn about the natural world	<i>I Spy</i>
			<i>Solid or Liquid?</i>
			<i>Nature Made</i>
			<i>What Do Living Things Need?</i>
			<i>What Is the Weather?</i>
			<i>On Water</i>
Science inquiry	Questioning and predicting	AC9SFI01 pose questions and make predictions based on experiences	<i>On Land</i>
			<i>Here Comes the Sun</i>
Science inquiry	Planning and conducting	AC9SFI02 engage in investigations safely and make observations using their senses	All readers*
	Processing, modelling, and analysing	AC9SFI03 represent observations in provided templates and identify patterns with guidance	All readers*
	Evaluating	AC9SFI04 compare observations with predictions with guidance	All readers*
	Communicating	AC9SFI05 share questions, predictions, observations and ideas with others	All readers*
			All readers*

All reader titles come from the
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**Standards practiced by conducting the "Let's Do Science" experiment and answering the Your Turn questions at the end of each reader*

Achievement Standard			Resource Title
Science understanding	Biological Sciences	AC9S1U01 identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs	<i>Inside a Plant</i>
			<i>Ecosystems</i>
			<i>Habitats</i>
			<i>Interdependence of Living Things</i>
			<i>Environment: A World of Change</i>
			<i>Growth and Change</i>
	Earth and Space Sciences	AC9S1U02 describe daily and seasonal changes in the environment and explore how these changes affect everyday life	<i>The Seasons</i>
			<i>Our Sun</i>
			<i>Earth and Moon</i>
Science as a human endeavour	Physical Sciences	AC9S1U03 describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape	<i>Forces</i>
			<i>Motion</i>
Science as a human endeavour	Use and Influence of Science	AC9S1H01 describe how people use science in their daily lives, including using patterns to make scientific predictions	<i>Looking Up</i>
			<i>Science Detectives</i>
Science inquiry	Questioning and Predicting	AC9S1I01 pose questions to explore observed simple patterns and relationships and make predictions based on experiences	All readers*
	Planning and Conducting	AC9S1I02 suggest and follow safe procedures to investigate questions and test predictions	All readers*
		AC9S1I03 make and record observations, including informal measurements, using digital tools as appropriate	All readers*
	Processing, Modelling, and Analysing	AC9S1I04 sort and order data and information and represent patterns, including with provided tables and visual or physical models	All readers*
	Evaluating	AC9S1I05 compare observations with predictions and others' observations, consider if investigations are fair and identify further questions with guidance	All readers*
	Communicating	AC9S1I06 write and create texts to communicate observations, findings and ideas, using everyday and scientific vocabulary	All readers*

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Achievement Standard			Resource Title
Science understanding	Earth and Space Sciences	AC9S2U01 recognise Earth is a planet in the solar system and identify patterns in the changing position of the sun, moon, planets and stars in the sky	Earth and Moon
			Earth's Moon
			Shadows
	Physical Sciences	AC9S2U02 explore different actions to make sounds and how to make a variety of sounds, and recognise that sound energy causes objects to vibrate	Message Received
			How Sound Moves
	Chemical Sciences	AC9S2U03 recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces	Weathering and Erosion
Science as a human endeavour	Use and Influence of Science	AC9S2H01 describe how people use science in their daily lives, including using patterns to make scientific predictions	Analyze It!
Science inquiry	Questioning and Predicting	AC9S2I01 pose questions to explore observed simple patterns and relationships and make predictions based on experiences	All readers*
	Planning and Conducting	AC9S2I02 suggest and follow safe procedures to investigate questions and test predictions	All readers*
		AC9S2I03 make and record observations, including informal measurements, using digital tools as appropriate	All readers*
	Processing, Modelling, and Analysing	AC9S2I04 sort and order data and information and represent patterns, including with provided tables and visual or physical models	All readers*
	Evaluating	AC9S2I05 compare observations with predictions and others' observations, consider if investigations are fair and identify further questions with guidance	All readers*
	Communicating	AC9S2I06 write and create texts to communicate observations, findings and ideas, using everyday and scientific vocabulary	All readers*

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Achievement Standard			Resource Title
Science understanding	Biological Sciences	AC9S3U01 compare characteristics of living and non-living things and examine the differences between the life cycles of plants and animals	Life Cycles
			Plant Reproduction
	Earth and Space Sciences	AC9S3U02 compare the observable properties of soils, rocks and minerals and investigate why they are important Earth resources	The Rock Cycle
			Rocks and Minerals
	Physical Sciences	AC9S3U03 identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another	Energy in Action
	Chemical Sciences	AC9S3U04 investigate the observable properties of solids and liquids and how adding or removing heat energy leads to a change of state	The Nature of Matter
		Changing Matter	
Science as a human endeavour	Nature and Development of Science	AC9S3H01 examine how people use data to develop scientific explanations	Tracking the Weather
	Use and Influence of Science	AC9S3H02 consider how people use scientific explanations to meet a need or solve a problem	Predict It!
			People and the Planet
Science inquiry	Questioning and Predicting	AC9S3I01 pose questions to explore observed patterns and relationships and make predictions based on observations	All readers*
	Planning and Conducting	AC9S3I02 use provided scaffolds to plan and conduct investigations to answer questions or test predictions, including identifying the elements of fair tests, and considering the safe use of materials and equipment	All readers*
		AC9S3I03 follow procedures to make and record observations, including making formal measurements using familiar scaled instruments and using digital tools as appropriate	All readers*
	Processing, Modelling, and Analysing	AC9S3I04 construct and use representations, including tables, simple column graphs and visual or physical models, to organise data and information, show simple relationships and identify patterns	All readers*
	Evaluating	AC9S3I05 compare findings with those of others, consider if investigations were fair, identify questions for further investigation and draw conclusions	All readers*
	Communicating	AC9S3I06 write and create texts to communicate findings and ideas for identified purposes and audiences, using scientific vocabulary and digital tools as appropriate	All readers*

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Achievement Standard			Resource Title
Science understanding	Biological Sciences	AC9S4U01 explain the roles and interactions of consumers, producers and decomposers within a habitat and how food chains represent feeding relationships	Food Webs
			The Nutrient Cycle
			Producers and Consumers
			The Right Environment
	Earth and Space Sciences	AC9S4U02 identify sources of water and describe key processes in the water cycle, including movement of water through the sky, landscape and ocean; precipitation; evaporation; and condensation	Earth's Cycles
	Physical Sciences	AC9S4U03 identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects	Electromagnetism
			Energy in Action
			Gravity
			Conservation of Energy
			Balanced and Unbalanced Forces
	Chemical Sciences	AC9S4U04 examine the properties of natural and made materials including fibres, metals, glass and plastics and consider how these properties influence their use	Chemical Reactions
			The Story of Fossil Fuels
			Our Resources
Science as a human endeavour	Nature and Development of Science	AC9S4H01 examine how people use data to develop scientific explanations	What a Scientist Sees
			What the Evidence Shows
	Science as a Human Endeavor	AC9S4H02 consider how people use scientific explanations to meet a need or solve a problem	Global Warming
			What the Evidence Shows
Science inquiry	Questioning and Predicting	AC9S4I01 pose questions to explore observed patterns and relationships and make predictions based on observations	All readers*
	Planning and Conducting	AC9S4I02 use provided scaffolds to plan and conduct investigations to answer questions or test predictions, including identifying the elements of fair tests, and considering the safe use of materials and equipment	All readers*
		AC9S4I03 follow procedures to make and record observations, including making formal measurements using familiar scaled instruments and using digital tools as appropriate	All readers*
	Processing, Modelling, and Analysing	AC9S4I04 construct and use representations, including tables, simple column graphs and visual or physical models, to organise data and information, show simple relationships and identify patterns	All readers*
	Evaluating	AC9S4I05 compare findings with those of others, consider if investigations were fair, identify questions for further investigation and draw conclusions	All readers*
	Communicating	AC9S4I06 write and create texts to communicate findings and ideas for identified purposes and audiences, using scientific vocabulary and digital tools as appropriate	All readers*

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Achievement Standard			Resource Title
Science understanding	Biological Sciences	AC955U01 examine how particular structural features and behaviours of living things enable their survival in specific habitats	<i>Traits for Survival</i>
			<i>Life and Non-Life in an Ecosystem</i>
			<i>Digestion and Using Food</i>
			<i>The Powerful Ocean</i>
			<i>Life and the Flow of Energy</i>
			<i>Adaptations</i>
			<i>Animal Senses</i>
			<i>Plant Reproduction</i>
	Earth and Space Sciences	AC955U02 describe how weathering, erosion, transportation and deposition cause slow or rapid change to Earth's surface	<i>The Rock Cycle</i>
	Physical Sciences	AC955U03 identify sources of light, recognise that light travels in a straight path and describe how shadows are formed and light can be reflected and refracted	<i>Light and Its Effects</i>
	Chemical Sciences	AC955U04 explain observable properties of solids, liquids and gases by modelling the motion and arrangement of particles	<i>Mixtures and Solutions</i>
			<i>Composition of Matter</i>
Science as a human endeavour	Nature and Development of Science	AC955H01 examine why advances in science are often the result of collaboration or build on the work of others	<i>Circuits</i>
			<i>Electricity</i>
	Use and Influence of Science	AC955H02 investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions	<i>Global Warming</i>
			<i>What the Evidence Shows</i>
Science inquiry	Questioning and Predicting	AC955I01 pose investigable questions to identify patterns and test relationships and make reasoned predictions	All readers*
	Planning and Conducting	AC955I02 plan and conduct repeatable investigations to answer questions, including, as appropriate, deciding the variables to be changed, measured and controlled in fair tests; describing potential risks; planning for the safe use of equipment and materials; and identifying required permissions to conduct investigations on Country/Place	All readers*
		AC955I03 use equipment to observe, measure and record data with reasonable precision, using digital tools as appropriate	All readers*
	Processing, Modelling, and Analysing	AC955I04 construct and use appropriate representations, including tables, graphs and visual or physical models, to organise and process data and information and describe patterns, trends and relationships	All readers*
	Evaluating	AC955I05 compare methods and findings with those of others, recognise possible sources of error, pose questions for further investigation and select evidence to draw reasoned conclusions	All readers*
	Communicating	AC955I06 write and create texts to communicate ideas and findings for specific purposes and audiences, including selection of language features, using digital tools as appropriate	All readers*

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