

# GREENVALE PRIMARY SCHOOL Progression of Knowledge and Skills



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Early Years	: Physical Development & Expressive Art and Design & Communi	cation
to:	Children in Reception will be learning to:	

# 3 & 4-year-olds will be learning to: Communication and Language

# • Use a wider range of vocabulary. Understand 'why' questions, like: "why do you think the

Understand 'why' questions, like: "why do you think the caterpillar is so fat?"

#### **Physical Development**

 Make healthy choices about food, drink, activity and toothbrushing.

#### Understanding the world

- Use all their senses in hands-on exploration of natural materials.
- Explore collections of materials with similar and/or different properties.
- Talk about what they see, using a wide vocabulary.
- Begin to make sense of their own life-story and family's history.
- Explore how things work.
- Plant seeds and care for growing plants.
- Understand the key features of the life cycle of a plant and an animal.
- Begin to understand the need to respect and care for the natural environment and all living things.
- Explore and talk about different forces they can feel.
- Talk about the differences between materials and changes they notice.

#### **Communication and Language**

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#### **Physical Development**

- Know and talk about the different factors that support their overall health andwellbeing:
  - regular physical activity
  - healthy eating
  - toothbrushing
  - sensible amounts of 'screen time'
  - having a good sleep routine being a safepedestrian

#### Understanding the world

- Explore the natural world around them.
- Describe what they see, hear and feel while they are outside.
- Recognise some environments that are different to the one in which they live.
- Understand the effect of changing seasons on the natural world around them.

#### **Communication and Language**

- Learn new vocabulary.
- Ask questions to find out more and to check what has been said to them.

ELG:

- Articulate their ideas and thoughts in well-formed sentences.
- Describe events in some detail.
- Use talk to work out problems and organise thinking and activities. Explain how things work and why they might happen.
- Use new vocabulary in different contexts.

#### Listening, Attention and Understanding

Make comments about what they have heard and ask questions to clarify their understanding.

# Personal, Social and Emotional Development - Managing Self

Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

#### **Understanding the World - The Natural World**

- Explore the natural world around them, making observations and drawing pictures of animals and plants.
- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
- Understand some important processes and changes in the natural world around them, including the seasons and changing states ofmatter.



# GREENVALE PRIMARY SCHOOL Progression of Knowledge and Skills



SCIENCE							
Asking Questions and Carrying out fair and comparative tests							
	ear 2	Year 3	Year 4		Year 5	Year 6	
Asking simple questions and recognising the can be answered in different ways.  Performing simple tests. Children can:  a explore the world around them, leading some simple scientific questions about things happen;  b begin to recognise ways in which they answer scientific questions;  c ask people questions and use simple sources to find answers;  d carry out simple practical tests, using sequipment;  e experience different types of scientific including practical activities;  f talk about the aim of scientific tests the on.	ty Se ar	world around them in rescientific experiences; start to make their own appropriate type of scienuse to answer questions recognise when a fair teachelp decide how to set undecisions about what oblong to make them for an equipment that might be	elevant questions about the sponse to a range of decisions about the most atific enquiry they might; st is necessary; p a fair test, making servations to make, how and the type of simple e used;	an co Us fur	response to a range of with increasing independecisions about the moscientific enquiry they requestions; explore and talk about kinds of scientific questions ask their own questions select and plan the moscientific enquiry to use questions; make their own decision to make, what measure to make them for, and plan, set up and carry of tests to answer question and controlling variable use their test results to tests and observations.	grecognising and necessary.  predictions to set up in tests.  ence, raise their own ut the world around them in scientific experiences; andence, make their own est appropriate type of might use to answer  their ideas, raising different tions; about scientific phenomena; at appropriate type of e to answer scientific  ens about what observations ements to use and how long whether to repeat them; out comparative and fair ons, including recognising es where necessary; aidentify when further	





SCIENCE								
Observing and measuring changes								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Observing closely, using sine Children can:  a observe the natural are constructed world aro be observe changes over consecuted use simple measurement of make careful observation equipment to help the	nd humanly und them; time; ents and equipment; ions, sometimes using	e where appropriate, tal	accurate measurements a range of equipment, and data loggers.  careful observations; time; ent, including	taking repeat readings w Children can:  a choose the most app make measurements use it accurately; b take measurements equipment with increprecision; c make careful and food know the importance	ng accuracy and precision, hen appropriate.  Propriate equipment to and explain how to a range of scientific easing accuracy and			





		SCIE	NCE			
Identifying, classifying, recording and presenting data						
Year 1	Year 2	Year 3	Year 4	Year	5	Year 6
and living things;	chassify objects into simple e findings in a range of ecord data in a variety ring questions such as ns, pictograms, tally	<ul> <li>b group and classify things</li> <li>c collect data from their or observations and measure</li> <li>d present data in a variety help in answering question</li> <li>e use, read and spell scient with confidence, using the and spelling knowledge;</li> </ul>	answering questions.  ale scientific language, keys, bar charts, and tables.  auping, sorting and classifying; wn rements; of ways to ons; affic vocabulary correctly and aeir growing word reading entific language, drawings,	using scientific keys, tables, scientific keys, tables, scientific keys, tables, scientific keys, tables, scientific and independent things and buse and deto identify, materials; codecide how choice of following tables, and labels,	diagrams and atter graphs, k ently group, cla materials; evelop keys an	oches; of increasing fic diagrams keys, tables,





SCIENCE								
Drawing conclusions, noticing patterns and presenting findings								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Using their observations and ideanswers to questions.  Children can:  a notice links between cause begin to notice patterns an support;  c begin to draw simple concle didentify and discuss differe use simple and scientific late read and spell scientific voc consistent with their increase spelling knowledge at key seg talk about their findings to variety of ways.	and effect with support; and relationships with usions; nces between their results; nguage; cabulary at a level asing word reading and stage 1;	e first talk about, and then what they have found ou	arggest improvements and anquiries, including oral and sor presentations of results from their results; a investigations; which could be investigated; go on to write about, at; results and conclusions to	including conclusions, of explanations of and a control and written forms such presentations.  Children can:  a notice patterns;  b draw conclusions to explanation and the conclusions to explanation and the control and the	pased in their data and observations; knowledge and explain their findings; pnounce scientific vocabulary that might be found			



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		SCIE	NCE						
Using scientific evidence and secondary sources of information									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
		Identifying differences, similarities or changes related to simple scientific ideas and processes.  Using straightforward scientific evidence to answer questions or to support their findings.		Identifying scientific eviden support or refute ideas or a					
				Children can:					
				a use primary and second evidence to justify idea	•				
		Children can:			refutes or supports their ideas;				
		<ul> <li>make links between their other scientific evidence;</li> </ul>		c recognise where secon	dary sources will be most				
		b use straightforward scien answer questions or supp		useful to research idea opinion from fact;	s and begin to separate				
		c identify similarities, differ changes relating to simple processes;	· •		anguage and illustrations to and justify their scientific				
		d recognise when and how might help them to answe be answered through pra	er questions that cannot	e talk about how scientif over time.	ic ideas have developed				