

St Benedict's CEVA Junior School Skills Progression

Content	Year 3	Year 4	Year 5	Year 6
Please see National Curriculum document for notes and guidance	 Plants (functions of parts of flowering plants, requirements for life and growth, water transportation, pollination, seed dispersal), Animals, including humans (nutrition, skeletons and muscles), Rocks, Light (reflection, shadows) Forces and magnets (friction, attraction and repulsion, magnetic materials, poles). 	 Living things and their habitats,(grouping, keys, changes over time) Animals including humans (digestive system, teeth, food chains), States of matter (solids, liquids and gases, reversible changes of state, evaporation condensation the water cycle), Sound,(vibrations, pitch, volume, distance) Electricity (simple series circuits, switches, conductors and insulators) 	 Living things and their habitats (life cycles of animals and plants), Animals including humans (life stages and changes to old age), Properties and changes of materials (properties of materials, dissolving, separating and filtering materials, uses of materials, reversible and irreversible changes) Earth and Space, (spheres, movement earth, moon) Forces (gravity, air resistance, water resistance, friction, levers, pulleys and gears). 	 Living things and their habitats (classification of groups), Animals including humans (heart and circulation, impact of drugs, exercise, diet and lifestyle on their bodies, nutrient and water transportation in animals), Evolution and inheritance, Light (travelling in straight lines, how we see things, mirrors, periscopes, rainbows etc.) Electricity (batteries, brightness of lights, symbols for circuits).
Skills	Lower key Stage 2 Scientific Enqu	ıiry Skills	Upper key Stage 2 Scientific Enqu	ıiry Skills
Asking questions	Raise their own relevant questions about the world around them		Use their science experiences to explore ideas and raise different kinds of questions	
Planning and setting up different types	2. Should be given a range of scientific experiences including different types of science enquiries to answer questions – see below		2. Talk about how scientific ideas	have developed over time
of enquiries	3. Start to make their own decisions about the most appropriate type of scientific enquiry they might use to answer questions		3. Select and plan the most appropriate type of scientific enquiry to use to answer scientific questions	
	4. Set up simple practical enquiries, comparative and fair tests5. Recognise when a simple fair test is necessary and help to decide how to set it up		4. Recognise when and how to set up comparative and fair tests5. Explain which variables need to be controlled and why	
Identifying and classifying	6. Talk about criteria for grouping, sorting and classifying; and use simple keys		6. Use and develop keys and other information records to identify, classify and describe living things and materials7. Identify patterns that might be found in the natural environment	



St Benedict's CEVA Junior School Skills Progression

	7. Recognise when and how secondary sources might help them to	8. Recognise which secondary sources will be most useful to		
	, , , , , , , , , , , , , , , , , , , ,	·		
	answer questions that cannot be answered through practical investigations	research their ideas and begin to separate opinion from fact		
Observing and	8. Make systematic and careful observations	9. Make their own decisions about what observations to make,		
measuring	9. Help to make decisions about what observations to make, how	what measurements to use and how long to make them for		
	long to make them for and the type of simple equipment that			
	might be used			
	10.Begin to look for naturally occurring patterns and relationships	10. Look for different causal relationships in their data and identify		
	and decide what data to collect to identify them	evidence that refutes or supports their ideas		
	11. Take accurate measurements using standard units	11. Choose the most appropriate equipment to make		
	12. Learn how to use a range of (new) equipment, such as data	measurements with increasing precision and explain how to use it		
	loggers/ thermometers appropriately	accurately.		
		12. Take repeat measurements where appropriate.		
Gathering and	13. Collect and record data from their own observations and	13. Decide how to record data and results of increasing complexity		
recording data	measurements in a variety of ways: notes, bar charts and tables,	from a choice of familiar approaches: scientific diagrams and		
	standard units, drawings, labelled diagrams, keys	labels, classification keys, tables, scatter graphs, bar and line		
	14. help to make decisions about how to analyse this data	graphs		
	15. With help, pupils should look for changes, patterns, similarities	14. Identify scientific evidence that has been used to support or		
	and differences in their data in order to draw simple conclusions	refute ideas or arguments		
	and answer questions			
Reporting,	16. Use relevant simple scientific language to discuss their ideas	15. Use relevant scientific language and illustrations to discuss,		
presenting and		communicate and justify their scientific ideas,		
communicating	17. Communicate their findings in ways that are appropriate for	16. use oral and written forms such as displays and other		
data/findings	different audiences, including oral and written explanations,	presentations to report conclusions, causal relationships and		
	displays or presentations of results and conclusions	explanations of degree of trust in results		
Evaluating and	18. With support, they should identify new questions arising from	17. Use their results to make predictions and identify when further		
improving	the data, making predictions for new values within or beyond	observations, comparative and fair tests might be needed		
	the data they have collected and finding ways of improving what			
	they have already done.			
	Types of scientific enquiry:			
	These types of scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative			
	and fair testing (controlled investigations); and researching using secondary sources.			
	https://www.gov.uk/government/publications/national-curriculum-in-england-science-programmes-of-study/national-curriculum-in-			
	<u>england-science-programmes-of-study</u>			