



Kexborough Primary School : Curriculum Planning

Science : Year 1

The principal focus of science teaching in Key Stage 1 is to enable pupils to experience and observe phenomena, looking more closely at the natural	Duri	ng years 1 and 2, pupils should be taught to u
and humanly-constructed world around them. They should be encouraged to be curious and ask questions about what they notice. They should be	thro	ugh the teaching of the programme of study
helped to develop their understanding of scientific ideas by using different types of scientific enquiry to answer their own questions, including	•	acking simple questions and recognising th
observing changes over a period of time, noticing patterns, grouping and classifying things, carrying out simple comparative tests, and finding things	•	asking simple questions and recognising th
out using secondary sources of information. They should begin to use simple scientific language to talk about what they have found out and	•	observing closely, using simple equipment
communicate their ideas to a range of audiences in a variety of ways. Most of the learning about science should be done through the use of first-	•	performing simple tests
hand practical experiences, but there should also be some use of appropriate secondary sources, such as books, photographs and videos. 'Working		perioriting simple cests
scientifically' is described separately in the programme of study, but must always be taught through and clearly related to the teaching of	•	identifying and classifying
substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might	•	using their observations and ideas to sugge
be linked to specific elements of the content. Pupils should read and spell scientific vocabulary at a level consistent with their increasing word		
reading and spelling knowledge at key stage 1	•	gathering and recording data to help in an

		SCIENTIFIC SKILLS						
Pl	anning, Communication and Sources	E	nquiring and Testing / Obtaining and Presenting Evidence		Observing and Recording		Co	
1.	Draw simple pictures	6.	Test ideas suggested to them	10.	Make observations using appropriate senses	13.	Γ	
2.	Talk about what they see and do	7.	Say what they think will happen	11.	Record observations	14.	S	
3.	Use simple charts to communicate findings	8.	Use first hand experiences to answer questions	12.	Communicate observations orally, in drawing,	15.	S	
4.	Identify key features	9.	Begin to compare some living things		labelling, simple writing and using ICT		e	
5.	Ask questions							

	SCIENTIFIC KNOWLEDGE—PLANTS					
National Curriculum—Statutory PoS	Language / Vocabulary	Experiences	C			
Substantive Knowledge	Substantive Knowledge					
Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees Identify and describe the basic structure of a variety of common flowering plants, including trees	 COMMON : wild plants. garden plants, deciduous, evergreen PLANT : leaf, leaves, root, bud, flower, blossom, petals, stem TREE: deciduous, evergreen, trunk, branches, leaf, root Fruit, vegetables, bulb, seed 	Understanding how to plant a seed. Watching and making observations of how a plant grows over time. Investigating what a plant needs to grow. Field work around the school grounds by comparing evergreen/deciduous trees and wild and garden plants. Comparing vegetables and fruit. Comparing plants throughout the seasons.	Instruc			

ught to use the following practical scientific methods, processes and skills of study content:

nising that they can be answered in different ways

s to suggest answers to questions

elp in answering questions.

nsidering Evidence and Evaluating

- Vake simple comparisons and groupings
- Say what has happened
- Say whether what has happened was what they
- expected

ross curricular / Inter Disciplinary

uction writing

with music.

SCIENTIFIC KNOWLEDGE— ANIMALS INCLUDING HUMANS						
National Curriculum—Statutory PoS	Language / Vocabulary	Experiences				
Substantive Knowledge	Substantive Knowledge					
Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) Identify, name, draw and label the basic parts of the	COMMON ANIMALS: ffish, amphibians, reptiles, birds, mammals, pets SENSES: tongue— taste; nose—smell; eyes—vision; skin—touch; ears—hearing BODY : head, legs, eyes, neck, knees, hair, arms, face, mouth, elbows, ears, teeth OMNIVORES : meat and plants, human, CARNIVORES : meat eaters, cat, dog, lion, tiger, fox, shark whale eagle hawk spake tyrapposaurus rey	Field work using senses to understand what they can taste, smell, see, hear and touch. School trip to look at how different animals live. Comparing different animals based on appearance and where they live.	Anir			
human body and say which part of the body is associated with each sense.	Shark, whate, cagie, nawk, shake, cyrannosaaras rek					
	SCIENTIFIC KNOWLEDGE	-EVERYDAY MATERIALS				
National Curriculum—Statutory PoS	Language / Vocabulary	Experiences				
Substantive Knowledge	Substantive Knowledge					
Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday materials Compare and group together a variety of everyday materials on the basis of their simple physical properties.	MATERIALS : wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil PROPERTIES: hard / soft; stretchy /stiff; shiny / dull; rough / smooth; bendy / not bendy; waterproof / not waterproof; absorbent / not absorbent	Investigation work: Best material for an umbrella. Feeling different materials and describing what they are like. Comparing materials and understanding that some objects are made with more than one material. Understand that different materials have the same property.	DT: floa			
	SCIENTIFIC KNOWLEDGE	— SEASONAL CHANGES				
National Curriculum—Statutory PoS	Language / Vocabulary	Experiences				
Substantive Knowledge	Substantive Knowledge					
Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies.	SEASON : summer, autumn, winter, spring, day, daytime WEATHER : wind, rain, snow, hail, sleet, fog, sun, hot, warm, cold	Field work: Using senses to compare seasons. Compare and constant what happens in each season.	Art Rep			

Cross curricular / Inter Disciplinary

imal riddles through writing.

Cross curricular / Inter Disciplinary

Design, make and evaluate making a boat that ats.

Cross curricular / Inter Disciplinary

work

port writing