



YEAR 1		
Working scientifically During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:	Vocabulary Focus 3/5 to be introduced 2023	
<ul> <li>asking simple questions and recognising that they can be answered in different ways</li> <li>observing closely, using simple equipment</li> <li>performing simple tests</li> <li>identifying and classifying</li> <li>using their observations and ideas to suggest answers to questions</li> <li>gathering and recording data to help in answering questions.</li> </ul>	question answer observe observing equipment identify classify sort group record diagram chart map data compare contrast describe biology chemistry physics	

Programme of study, skills and vocabulary					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Plants Seasonal change	Seasonal change	Animals including humans Seasonal change	Everyday materials Seasonal change	Revisit Plants Seasonal change	Revisit Animals including humans Seasonal change
		Stor	ries		
	Teaching	g science thro	ough stories	STEM	
<u>story-links-list.pdf</u> <u>Book Lists for Primary Science Topics (booksfortopics.com)</u>					
diverse-representation-in-science-book-corner-suggestions-1.pdf					
RSPB: My First Book of Garden Birds       A Little Guide to Wild Flowers         (Mike Unwin and Sarah Whittley)       (Charlotte Voake)					
<b>Snail Trail</b> (Ruth Brown)		The Things That I LOVE about TREES (Chris Butterworth)			
<b>Superworm</b> (Julia Donaldson & Axel Scheffler)		<b>Harry's Hazelnut</b> (Ruth Parsons)			
Windstreet       Superior         Birds       Superior         Windstreet       Superior         Birds       Superior         Windstreet       Superior         Birds       Superior         Birds			rry's lazelnut		
	Tree: Seasons Come, Seasons Go The Great Paper Caper Column Ta (output)				
One Year with Kipper	Patricia Hegarty and Britta Teckentrup)       (Oliver Jeffers)         One Year with Kipper       Who Sank the Boat				





(Mick I	Nick Inkpen) (Pamela Allen)			
After t	the Storm	The Story of Cindere	ella	
	Butterworth)	(Walt Disney)		
TR	Ore year with Ore year with Marker Marker	Who PAPER CAPER	Sank the Boat? Pure's Alex Pure's Alex Pu	
		Job titles		
	<u>01 s</u>	stem-careers-by-topic-1.pc	<u>1f</u>	
	Key objectives	Specific skills	Vocabulary	
	Observe changes across the	Pupils should observe and talk about	season spring summer autumn	
	four seasons	changes in the weather and the	winter weather hot/ warm cool/	
	Observe and describe weather	seasons.	cold sun/ sunny cloud/ cloudy wind/	
	associated with the seasons	Pupils might work scientifically by:	windy rain/ rainy snow/ snowing	
ě	and how the day length varies	making tables and charts about the	hail/ hailing sleet frost fog/ mist	
วินธ		weather; and making displays of what happens in the world around	ice/ icy rainbow thunder lightning storm light/ dark day/ night	
Š		them, including day length, as the	storm light/ dark day/ hight	
Seasonal Change		seasons change.		
ŭ	Big question?	Famous names/inventions		
Sas	Why do leaves change colour?	Greta Thunberg		
Se		TV Weather presenters		
		Dr Steve Lyons		
		(Extreme Weather)		
		Holly Green		
		(Meteorologist)	L	
	Key objectives	Specific skills	Vocabulary	
	Identify and name a variety of	Pupils might work scientifically by:	common wild plants garden plants	
	common wild and garden plants,	observing closely, perhaps using	tree deciduous evergreen trunk	
	including deciduous and	magnifying glasses, and comparing	branches leaf root plant leaf bud	
	evergreen trees	and contrasting familiar plants;	flowers blossom petals root stem	
	Identify and describe the	describing how they were able to identify and group them, and	fruit vegetables bulb seed	
	basic structure of a variety of	drawing diagrams showing the parts		
	common flowering plants	of different plants including trees.		
	including trees	Pupils might keep records of how		
S	-	plants have changed over time, for		
Plants		example the leaves falling off trees		
a		and buds opening; and compare and		
٩		contrast what they have found out		
	Pie question?	about different plants.		
	Big question? Why are plants alive?	<b>Famous names/inventions</b> Joseph Banks - botanist		
	why are plants allve?	Local links - Westonbirt - Robert		
		Holford - Victorian horticulturalist		
		Holford - Victorian horticulturalist History of Westonbirt Arboretum		
		Holford – Victorian horticulturalist <u>History of Westonbirt Arboretum  </u> <u>Forestry England</u>		
		History of Westonbirt Arboretum		
		History of Westonbirt Arboretum   Forestry England		





Animals including humans	Key objectives 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 Identify and name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	Specific skills Pupils might work scientifically by: using their observations to compare and contrast animals at first hand or through videos and photographs, describing how they identify and group them: grouping animals according to what they eat; and using their senses to compare different textures, sounds and smells.	Vocabulary common animals fish amphibians reptiles birds mammals pets carnivores meat cat dog lion tiger fox shark killer whale eagle hawk snake herbivores plants cow hamster guinea pig tortoise omnivores meat and plants badger human bear chickens hear neck arms elbows legs knees face ears eyes hair mouth teeth		
Animals i	Big question? Why are animal and human bodies different?	Famous names/inventions David Attenborough Steve Backshall Chris Packham Joan Proctor (a herpetologist who designed London Zoo's reptile house) Jane Goodall - the scientist and conservationist who is famous for her work with chimpanzees. Evelyn Glennie - hearing impaired percussionist Stevie Wonder - blind singer songwriter Beatrix Potter Author & Botanist			
Everyday materials	Key objectives Distinguish between and object and the material from which it's 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	Specific skills Pupils should explore, name, discuss and raise and answer questions about everyday materials so that they become familiar with the names of materials and properties. Pupils might work scientifically by: performing simple tests to explore questions, for example: 'What is the best material for an umbrella?for lining a dog basket?for curtains?for a bookshelf? for a gymnast's leotard?'	Vocabulary material wood plastic glass metal water rock properties hard soft stretch stiff shiny dull rough smooth bendy waterproof absorbent brick paper fabrics elastic foil		





Big question? Why are windows made of glass?	Famous scientists/inventions William Addis Toothbrush Inventor	
	Chester Greenwood-Earmuffs	