



		YEA	R 2			
Working scientifically Vocabulary 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:						
 asking simp observing c performing identifying using their gathering a 	observing ed classify sort diagram cha contrast des chemistry pl	question answer observe observing equipment identify classify sort group record diagram chart map data compar contrast describe biology chemistry physics				
		amme of study,				
Autumn 1 Uses of everyday materials	Autumn 2 Materials	Spring 1 Animals including humans	Spring 2 Living things and their habitats	Summer 1 Plants	Summer 2 Plants	
The Tin Forest (Helen Ward)			Handa's Surprise (Eileen Brown)			
Traction Man (Mini Grey) Three Little Pigs			Once There Were Giant (Martin Waddell and Per Tadpole's Promise			
(Lesley Sims)		Three Little Pigs	(Jeanne Willis and Tony I	Ross)	Tausekii) Tirren Tadpoles Promise	
Jack and the Beanstalk (Richard Walker)			The Gruffalo (Julia Donaldson)			
Ten Seeds (Ruth Brown)			Meerkat Mail (Emily Gravett)			
A Seed Is Sleepy (Dianna Aston)			No Place Like Home (Jonathon Emmett)			
	TEN SEEDS		GRUFFALO	A COMPANY	Charles and	
Benstelk		A Sud To Shepy	De Dadar - 44 Metter	MEERKAT	No Place Like - Home - Home	





Living things and their habitats	 Key objectives explore and compare the differences between things that are living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other identify and name a variety of plants and animals in their habitats, including microhabitats describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. Big question tbc 	Specific skills Pupils might work scientifically by: sorting and classifying things according to whether they are living, dead or were never alive, and recording their findings using charts. They should describe how they decided where to place things, exploring questions for example: 'Is a flame alive? Is a deciduous tree dead in winter?' and talk about ways of answering their questions. They could construct a simple food chain that includes humans (e.g. grass, cow, human). They could describe the conditions in different habitats and micro-habitats (under log, on stony path, under bushes) and find out how the conditions affect the number and type(s) of plants and animals that live there.	Vocabulary living dead never alive habitats micro- habitats food food chain sun-grass- cow-human alive healthy logs leaf litter stony path under bushes shelter seashore woodland ocean rainforest conditions hot/ warm/ cold dry/ damp/ wet bright/ shade/ dark	
	Key objectives	Liz Bonnin Conservationist Eugenie Clark- marine biologist Specific skills	Vocabulary	
Uses of everyday materials	identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Pupils might work scientifically by: comparing the uses of everyday materials in and around the school with materials found in other places (at home, the journey to school, on visits, and in stories, rhymes and songs); observing closely, identifying and classifying the uses of different materials, and recording their observations.	Wood metal plastic glass brick rock paper cardboard squashing bending twisting stretching metal – coins, cans, cars, table, legs wood – matches, floors, telegraph poles spoons – plastic, wood, metal John Dunlop- rubber Charles Macintosh- waterproof fabric	
	Big question tbc	Famous names/inventions Charles Macintosh-Waterproof material John MacAdam- Tarmac		
Animals including humans	Key objectives notice that animals, including humans, have offspring which grow into adults find out about and describe the basic needs of animals, including humans, for survival (water, food and air) describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	Specific skills Pupils might work scientifically by: observing, through video or first-hand observation and measurement, how different animals, including humans, grow; asking questions about what things animals need for survival and what humans need to stay healthy; and suggesting ways to find answers to their questions.	Vocabulary grow adults nutrition reproduce survival water food air exercise hygiene egg-chick-chicken egg- caterpillar-pupa-butterfly spawn- tadpole-frog lamb-sheep baby-toddler- child-teenager-adult	





	Big question tbc	Famous names/inventions Florence Nightingale Pioneer of			
		modern nursing in GB			
		, second s			
		Elizabeth Garrett Anderson -			
		First British female physician			
		and surgeon			
		Steve Irwin -Wildlife expert			
		Robert Winston Human			
		Scientist			
Everyday materials	Key objectives Distinguish between and object and the material from which it's made	Specific skills Pupils might work scientifically by: performing simple tests to explore	Vocabulary material wood plastic glass metal water rock properties hard soft		
	Identify and name a variety of everyday	questions, for example: 'What is the best material for an umbrella?for lining a	stretch stiff shiny dull rough smooth bendy waterproof absorbent brick		
	materials including wood, plastic, glass, metal, water and rock	dog basket?for curtains?for a bookshelf?for a gymnast's leotard?'	paper fabrics elastic foil		
	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				
	Big question tbc	Famous names/inventions			
	Key objectives	Specific skills	Vocabulary		
ts	observe and describe how seeds and bulbs grow into mature plants	Pupils might work scientifically by: observing and recording, with some accuracy, the growth of a variety of	water light suitable temperature grow healthy germination reproduction		
	find out and describe how plants need	plants as they change over time from a			
	water, light and a suitable temperature to grow and stay healthy.	seed or bulb, or observing similar plants at different stages of growth; setting up a			
		comparative test to show that plants need light and water to stay healthy.			
Plants	Big question tbc	Famous names/inventions			
Ы		Captain Cook- Botanists			
		Agnes Arber Botanist			
		Alan Titchmarsh- Botanist &			
		Gardener			



