

Bearwood Primary and Nursery School

'Learning, Enjoying and Succeeding Together'

## Science Unit Map

LEARNING, ENJOYING, & SUCCEEDING TOGETHER!

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
R	Talks about		Explore non-contact	how things grow.		Can talk about	
	differences between		forces (gravity and			different life cycles	
	materials and		magnetism)				
	changes they notice.		Talks about				
			differences between				
			materials and				
			changes they notice.				
R	Understand the effects	of seasons on the natura	al world, discussing wher	n and how things grow.			
Consistent learning	Understand the need to respect and care for the natural environment and all living things.						
over the year	Name and order the seasons.						
	Explain what their five senses are.						
1	Seasonal changes		<u>To investigate</u>	To understand	<u>To understand</u>		
	(main unit and revisit		everyday materials	animals and humans	<u>plants</u>		
	each season)						
			To know how to	identify and name a	Identify and name a		
	To understand		distinguish between	variety of common	variety of common		
	seasonal changes		an object and the	animals including	wild and garden		
			material from which	fish, amphibians,	plants, including		
	changes across the		it is made	reptiles, birds and	deciduous and		
	four seasons			mammals	evergreen trees.		
			identify and name a				
	Observe and		variety of everyday	Identify and name a	Identify and describe		
	describe weather		materials, including	variety of common	the basic structure		
	associated with the		wood, plastic, glass,	animals that are	of a variety of		
	seasons and how		metal, water, and	carnivores,	common flowering		
	day length varies.		rock	herbivores and	plants (seeds, roots		
				omnivores.	etc), including trees.		

1	Working Scientifically & Seasonal Changes							
Consistent learning								
over the year								
2	To investigate living		To investigate	To understand	To understand			
	things		everyday materials	animals and humans	<u>plants</u>			
	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 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		Everyday materials Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Identify and compare and know the uses of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard	To know that animals, including humans, have offspring which grow into adults To know and describe the basic needs of animals, including humans, for survival (water, food and air)	To observe and know how seeds and bulbs grow into mature plants To find out and describe how plants need water, light and suitable temperature to grow and stay healthy			
2	Working Scientifically							
<b>Consistent learning</b>								
over the year								

numans   numans   numans     Compare how things   Need light in order to   Functions of   Compare and gro     move on different   see things   Nutrition- cannot   Identify and know   different parts of   together different     surfaces and   (reflection) and that   make own food so   that humans and   flowering plants   kinds of rocks and	oup it d						
Surfaces and contact/non-contact forces.dark is absence of light. Shadows.need to eat.some animals and some animals have skeletons and muscles for support, 	sils <mark>ge</mark>						
Plant life cycle, pollination.							
3 Working Scientifically	Working Scientifically						
Consistent learning							
over the year							
4 Sound Materials - States of Animais, including Electricity Living things	, Jain						
made Compare and group Simple functions of Common electrical circuits the local and wi	ider						
Vibrations from materials together. the basic parts of the appliances.							
sounds travel according to whether digestive system in Construct a simple Classify plants a	and						
through a medium to they are solids, humans. series electrical animals based	on						
the ear. liquids or gases. Different types of circuit, identifying/ specific							
Pitch and volume.Observe changes of teeth in humans and teeth in humans and naming basic parts.characteristics	s.						
state through their functions. Identify whether or Recognise change	es in						
heating or cooling. Construct and not a lamp will light and dangers to	0						
Evaporation and interpret a variety of in a simple series habitats.							
condensation in the tood chains. circuit.	ļ						
water cycle. Function of a switch.							
insulators.							

4	Working Scientifically					
Consistent learning						
5	All living things and	Forces and Magnets	Properties and	Properties and	Earth and space	Animals, including
5	their habitats	Gravity, air	changes of materials	changes of materials		humans
	Life cycles of a	resistance, water	Dissolving to form a	Compare and group	Movement of the	Describe the changes
	mammal, an	resistance and	solution, and	together everyday	Earth, and other	as humans develop
	amphibian, an insect	friction.	recovering a	materials on the	planets.	to old age
	and a bird.	Mechanisms	substance from a	basis of their	Movement of the	
	Reproduction of a	including levers,	solution.	properties.	Moon.	
	plant	pulleys and gears.	Separating mixtures,	Give reasons for the	Sun, Earth and Moon	
			including through	particular uses of	as approximately	
			filtering, sieving and	everyday materials.	spherical bodies	
			evaporating		Day and night	
			Dissolving, mixing		looking at the Earth's	
			and changes of state		rotation.	
			as reversible changes			
			Some changes result			
			in the formation of			
			new materials and			
			are usually			
			irreversible.			
5			Working So	cientifically		
Consistent learning						
over the year						
6	Living things and	Animals, including	Evolution and		<u>Light</u>	<u>Electricity</u>
	their habitats	<u>humans</u>	<u>inheritance</u>			
					recognise that light	associate the
	describe how living	identify and name	recognise that living		appears to travel in	brightness of a lamp
	things are classified	the main parts of	things have changed		straight lines	or the volume of a
	into broad groups	the human	over time			buzzer with the
		circulatory system			explain that we see	number and voltage
	Give reasons for		Identify how animals		things because light	of cells used in the
	classifying plants	recognise the impact	and plants are		travels from light	circuit
	and animals based	of diet, exercise,	adapted to suit their		_	

	on specific characteristics.	drugs and lifestyle on the way their bodies function	environment in different ways and that adaptation may lead to evolution.		sources to our eyes or from light sources to objects and then to our eyes	use recognised symbols when representing a simple circuit in a diagram.
6 Consistent learning over the year	Working Scientifically					