



NURSERY End of Year Expectations:	Chemistry
Biology	 Use all their senses in hands-on exploration of natural materials.
 To observe and talk about what they see 	 Explore collections of materials with similar and/or different properties.
 To have an awareness of the key features of the life cycle of a plant and an animal. 	Talk about what they see, using a wide vocabulary
 Begin to understand the need to respect and care for the natural environment and 	Explore and talk about different forces they can feel.
all living things.	
Physics	Working Scientifically
Explore materials with different properties.	• Exploring and responding to the world around them (using their senses)
Explore natural materials, indoors and outside.	Experiencing and interacting with the world around them
 Use all their senses in hands-on exploration of natural materials. 	Observing
 Talk about what they see, using a wide vocabulary 	Talking about what they see, hear, smell, taste
Explore how things work.	Develop and use new vocabulary to talk about what they see
 Explore and talk about different forces they can feel. 	Developing language to compare – similarities and differences
	Understanding questions – what, who, where, how
	Asking questions
	Investigation skills
	Using equipment

In our Early Years Foundation Stage the principles of high quality provision underpin our curriculum. Our practitioners understand that all children are unique in the way and the rate at which they develop therefore progress is not a linear process. Our practitioners will adjust their practice in response to individual children so that our curriculum meets their learning and developmental needs. All Areas of Learning and Development and the Characteristics of Effective Learning are interconnected. As the Prime areas of Learning and Development lay vital foundations in the development of the world Uplands Infant and Nursery school are continuously in action and prioritised throughout the EYFS.

Children within the foundation stage need to explore resources so they can learn what they are and what they do. We want our children to develop a natural curiosity and interest and have a positive good mind set to want to explore, investigate and observe their natural world.

Key concepts Image: Concepts Knowledge categories			Professional roles careers	Curriculum Drivers
Biology Humans, Natural world, plants, flowers, trees, Animals – birds farm, wild, sea	Chemistry	Physics Explore and talk about the different forces they can feel	Experiences	

		Exploring materials, explore and notice changes between materials, exploring different materials with different properties,	Seasonal changes		
Term 1	HumansName parts of the body and know what they are used for – smell, taste, hear, looking, walking, talking.Hygiene – washing handsNatural world – plants, flowers and trees Sensory activities for the children to explore freely using parts of their body– splashing in puddles, standing and playing in the rain; walking through long grass; walking through 	Explore materials with different properties – provide different open ended materials inside and outside where the children can explore textures, sounds smell and tastes. Sensory play – corn flour, bubbles in the water/puddles, ice, play dough, sinking and floating, magnets, natural objects – twigs, conkers, grass, leaves Explore and notice the differences and change between materials Provide opportunities to change materials from one state to another Cooking – making toast Making jelly Melting chocolate	Night timeDay timeWhat's the difference? How do we know?What might we do?AutumnSignsWeatherClothesExplore the different forces they can feelExplore using magnetsExplore items that sink and floatExplore how materials can be changed bytwisting, scrunching, bending, snapping,pulling, squashingSponges <td< td=""><td>Doctor Surgery Park keepers Park visit Inspirational people Dr Ranj</td><td>Possibilities Environment Diversity</td></td<>	Doctor Surgery Park keepers Park visit Inspirational people Dr Ranj	Possibilities Environment Diversity
Vocabulary	Sand, Water, Acorns, Conkers, Leaves, spiders, worms, names of birds we see locally, names of farm animals, names of zoo animals, nose – smelling, eyes – looking, ears – listening, hands – touch and feel	smooth, slimy, soft, hard	weather – raining, frosty, snowing, hailing, v		
Term 2	Humans Identify similarities and differences between themselves now and when they were babies - how they look, what they needed – baby, child, adult Hygiene – teeth cleaning	Explore materials with different propertiesExplore collections of materials with similar and/ordifferent properties-Leaves-Rocks-Shells-Wet and dry sand	Night time Day time Times of the day – Morning Afternoon What's the difference? How do we know? What might we do? Winter/ Spring	Farm Dentist surgery Farm visit Owl visit	Possibilities Environment Diversity
	Natural world - Plants/flowers and trees	Talk about what they see	Signs		

	Teaching and naming parts of a flower/plant and tree (features) Introduce how tress, plants, flowers start (seeds). Animals – birds, farm animals, sea creatures, wild animals Naming features of animals – birds, farm and zoo animals Naming and matching baby animals with their parents Farm trip Owl visit	Explore and notice the differences and change between materials Provide opportunities to change materials from one state to another Cooking – Pancakes Making warm drinks Play dough station Melting and freezing ice	 Weather Clothes Explore and talk about the different forces they can feel Explore using magnetic toys Explore and talk about what they see when exploring sinking and floating Explore how materials can be changed by twisting, scrunching, bending, snapping, pulling, squashing Notice the similarities Light box – provide different materials where light will shine through and not shine through- encourage the children to talk about what they have noticed Explore shadows 	Inspirational people JB's Farm	
Vocabulary	Baby, child, adult, hygiene, germs, teeth, dentist, toothpaste, parts of a flower, names of baby animals, names of owls, features of a farm	Melting, freezing,	Explore shadows Language to name the signs of winter/ spring, hibernating, day, night, morning, evening, language to name the weather – raining, frosty, snowing, hailing, cold, freezing, warmer, sunny, temperature, dark, light, shadow, names of colours, twisting, crunching, bending, snapping,		
Term 3	Humans Important of staying healthy Meal times – breakfast Lunch Dinner Food – healthy and non- healthy foods Hygiene – washing hands, bath times, cleaning teeth	Explore materials with different properties Explore collections of materials with similar and/or different properties - Leaves - Rocks - Shells - Wet and dry sand	squashed. Night time Day time Times of the day – Morning Afternoon Evening What's the difference? How do we know? What might we do?	Hospitals Gardner Vets Pet visit	Possibilities Environment Diversity
	Natural world Plants/flowers and trees Look at and investigate what plants, trees and flowers need to stay healthy Observe and comment on what they see.	Talk about what they see – continue to develop and deepen children's language skills so they can talk about and discuss their findings Explore and notice the differences and change between materials	Summer Signs Weather Clothes	Inspirational people Jamie Oliver	

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	Animals – birds, farm animals, sea creatures,	Provide opportunities to chang	e materials from	Explore and talk about the different	Fern and Roys	
	wild animals	one state to another		forces they can feel	vets	
	Name and look at different places where	Cooking –		Explore using magnets – compare	(cbeebies)	
	these animals live – farm, sea, park, trees,	Rice crispy cakes		magnetic and non-magnetic items		
	woods, jungle, and deserts. Notice	Making warm drinks		Use language – wood, metal, plastic	Mr Blooms	
	similarities and differences of these places.	Play dough station		Explore items that sink and float –	Nursery	
				investigate and compare	(cbeebies)	
	What do these animals need to stay healthy –	Melting and freezing ice		Explore how materials can be changed by		
	meat eaters, plant eaters, water, a place to			twisting, scrunching, bending, snapping,		
	live	Light box – provide different m	-	pulling, squashing		
		will shine through and not shin	-	 Items made from foam 		
	Identify and name adult and baby animal	encourage the children to talk	about what they	 Play dough 		
		have noticed		- Clay		
				Notice the similarities and differences		
		Explore and talk about shadow	S	between these materials		
				Talk about what they see		
Vocabulary	Healthy, not healthy, germs, hygiene, meal	Melting, freezing, language to t	alk about how	Language to name the signs of summer, day, night, morning, evening,		
	times, water, sunlight, soil, grow, farm,	things have changed, light, darl	κ,	language to name the weather – raining, warm, sunny, hot, temperature,		
	jungle, zoo, field, pond, sea, woods, forest,			dark, light, shadow, names of colours, twisting, crunching, bending,		
	baby animal names			snapping, squashed, magnetic, non-magnetic, wood, plastic, metal		
RECEPTIC	ON End of Year Expectations:		Chemistry			
Biology			In reception they	, will		
	on they will			what they see, hear, and feel whilst outsic		
•				• • •		
	escribe what they see, hear, and feel while	st outside		e natural world around them		
• Ex	plore the natural world around them		ELG –			
ELG –			 Explore th 	e natural world around them, making obs	servations and drawing	
• Fv	valore the natural world around them ma	king observations and	pictures of	f animals and plants; -		
	• Explore the natural world around them, making observations and		 Know som 	e similarities and differences between th	e natural world around them	
	 drawing pictures of animals and plants; - Know some similarities and differences between the natural world around them and contrasting environments, drawing on their 		and contra	asting environments, drawing on their exp	periences and what has been	
• Kr			read in cla			
ar						
	experiences and what has been read in class			d some important processes and change		
Ex.	periences and what has been read in class	5	them, incl	uding the seasons and changing states of	matter.	

 around them ELG – Explore the natural world around them, making observations and drawing pictures of animals and plants; - Observing Talking about what they see, hear, smell, tas Develop and use new vocabulary to talk abo Developing language to compare – similarities 	 Talking about what they see, hear, smell, taste Develop and use new vocabulary to talk about what they see Developing language to compare – similarities and differences Understanding questions – what, who, where, how Asking questions Investigation skills 		
Key concepts			
Knowledge categories			
Biology Chemistry Physics			
Humans, Natural world, plants, flowers, Exploring materials, explore and notice Explore and talk about the diff	rent		
trees, Animals – birds farm, wild, sea changes between materials, exploring forces they can feel			
different materials with different properties, Seasonal changes			
Term 1 Humans Explore and talk about materials with different Autumn	Doctor	Possibilities	
Name parts of the body and know what properties – provide different open ended Notice the features of autumn and the second sec	ne Surgery	- · ·	
they are used formaterials that foster curiosity and explore textures,weatherName the 5 sensessounds smells and tastes.	Incriticational	Environment	
Develop language to describe the Develop language to discuss what they see, feel, Notice and talk about how animals	ehave people	Diversity	
different things they hear, smell, touch smell and hear.	Dr Ranj	Diversity	
and taste - Magnets Talk about the different forces the	-		
Natural world – plants, flowers and trees - Water play, inside and outside feel			
Sensory activities for the children to - Sensory play Using magnets			
explore freely using parts of their body— - Wet and dry sand			
splashing in puddles, standing and playing Explore and talk about how materia	s can		
in the rain; walking through long grass; Observe and talk about the differences and be changed by twisting, scrunching,			
walking through leaves on the ground; changes between materials bending, snapping, pulling, squashing	5		

Vocabulary	 walking on different textures with no shoes – sand, mud, grass. Windy day box Rainy day box Encourage the children to observe and talk about what they see Name and describe the features of the natural world, developing curiosity – things they are likely to come across when Animals – birds, farm animals, sea creatures, wild animals Name and describe – birds, farm animals, wild animals Categorise and group Observational drawings of the natural world, animals and plants Naming natural items outside – conkers, 	Provide opportunities to change materials from one state to another. Children to observe and comment on what they see. Cooking Melting Heating Cooling	 Sponges Twigs Rubber tubes Cardboard Items made from foam Play dough Floating and Sinking Shadows Light travelling through materials Light travelling through materials		
vocabulary	mud, sand, stones, berries, leaves, acorns, puddles, sticks, branch, 5 senses and what these are for, language to describe what they can hear, smell, touch, see, taste.	cooking, words to describe textures, smell and hear	temperature, types of weather, hibernation, floating, sinking, light, dark, transparent, shadows, twisting, scrunching, bending, snapping, pulling, squashing		
Term 2	Humans Compare and describe the similarities and differences between themselves now and when they were babies - how they look, what they needed – baby, child, adult Plants/flowers and trees Naming and describing the parts of a flower/plant and tree (features) Introduce how tress, plants, flowers start (seeds). Name and describe different types of flowers Name and describe different types of trees Animals – birds, farm animals, sea creatures, wild animals	Explore and talk about materials with different properties Explore collections of materials with similar and/or different properties Talk and describe what they see Notice and talk about the differences and change between materials Provide opportunities to change materials from one state to another Cooking Melting Heating Cooling Talk and describe what they see	Spring Notice the features of spring and the weatherNotice and talk about how animals behaveCompare with AutumnTalk and describe the different forces they can feelUsing magnets – compare magnetic and non-magnetic itemsExplore and talk about how materials can be changed by twisting, scrunching, bending, snapping, pulling, squashing - Sponges - Twigs - Rubber tubes - Cardboard	Farm Dentist surgery Farm visit Owl visit Inspirational people JB's Farm	Possibilities Environment Diversity

	Naming and describing features of animals Naming and matching baby animals with their parents – look closely at similarities and differences and use language to talk about these Understand and notice the changes of a life cycle – chicks Observational drawings of the natural world, animals and plants		 Items made from foam Play dough Talk about the similarities and differences between these materials Floating and Sinking Shadows Light travelling through materials 		
Vocabulary	Baby, child, adult, language to talk about how they have changed, trees, flowers, seeds, part of a tree, part of a flower, naming farm, wild and sea animals, naming baby animals, naming different types of local birds, parts of a life cycle, features of animals	Language to talk about what they see, melting, freezing, liquid, solid, boiling,	Language to talk and compare the signs of spring autumn and winter, signs of spring, growth, new life, language to talk about the weather, magnetic, nonmagnetic, attraction, repulsion, wood, plastic, metal, glass		
Term 3	Humans Talk about and describe the important of staying healthy Meal times – breakfast Lunch Dinner Food – healthy and non- healthy foods Hygiene – washing hands, bath times, cleaning our teeth Plants/flowers and trees Discuss and talk about what plants, trees and flowers need to stay healthy Animals – birds, farm animals, sea creatures, wild animals Name and describe and compare the different places where these animals live – farm, sea, park, trees, woods, jungle, and deserts. What do animals need to stay healthy – meat eaters, plant eaters, water, a place to live	Explore and talk about materials with different properties Talk about what they see – continue to develop and deepen children's language skills so they can talk about and discuss their findings Notice and describe the differences and change between materials Provide opportunities to change materials from one state to another Cooking Heating Freezing Cooling Talk about what they see – continue to develop and deepen children's language so they can talk and discuss their findings	Summer Notice the features of summer and the weather Notice and talk about how animals behave Compare with Autumn and spring Observe and talk about the different forces they can feel Magnets – compare magnetic and non- magnetic items Explore and observe how materials can be changed by twisting, scrunching, bending, snapping, pulling, squashing - Sponges - Twigs - Rubber tubes - Cardboard - Items made from foam - Play dough - Clay Talk about the similarities and differences between these materials	Hospitals Gardner Vets Pet visit Inspirational people Chef Jamie Oliver Fern and Roys vets (cbeebies) Mr Blooms Nursery (cbeebies)	Possibilities Environment Diversity

	Understand and talk about the key features of a life cycle – caterpillars		Talk about what they see – continue to develop and deepen children's language Floating and Sinking Shadows	
	Observational drawings of the natural world, animals and plants		Light travelling through materials	
Vocabulary	Healthy, not healthy, germs, hygiene, meal times, water, sunlight, soil, grow, farm, jungle, zoo, field, pond, sea, woods, forest, baby animal names, key features of a life cycle, meat eaters, plant eaters, habitats	Language to talk about what they see, melting, freezing, liquid, solid, boiling, language to talk about what they see, smell, taste and hear	Language to talk and compare the signs of spring autumn and winter, signs of spring, growth, new life, language to talk about the weather, magnetic, nonmagnetic, attraction, repulsion, wood, plastic, metal, glass	

 Working Scient Asking simin different Observing Performing Identifying Using their Gathering Chemistry Everyday mate Disting made Identif wood, 	 Performing simple tests. Identifying and classifying. Using their observations and ideas to suggest answers to questions. Gathering and recording data to help in answering questions. Identifying a variety of common animals including fish, mammals. Identifying a variety of common animals that are carnivores, h Describe and compare the structure of a variety of common a amphibians, reptiles, birds and mammal including pets. 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 		on flowering plants including , amphibians, reptiles, birds and nerbivores and omnivores. nimals including fish,			
Teach Retrieval Non-	sis of their simple physical properties		y concepts edge categories		Curriculum Drivers	Vocabulary
Statutory Working Scientifically			0			
Term 1	Biology	c	Chemistry	Physics		

Plants longitudinal Identify and name a variety of common wild and garden plants. Introduce the names and images of evergreen and deciduous trees. Plants: Pupils use the local environment to become familiar with common names of flowers, deciduous and evergreen trees. Chn to observe growth of flowers and plants they have planted in the atrium and woodland area. Working Scientifically Observe closely, perhaps using magnifying glasses to identify plants and trees. Notice how leaves fall off trees Animals including humans - Introduce the names and images of birds, fish, amphibians, reptiles and mammals. Animals: Pupils should become familiar with the common names of some fish, amphibians, reptiles, birds and mammals.	 Everyday materials Distinguish between an object and the material it is made from. Identify and name a range of everyday materials including wood, plastic, glass, metal, water and rock. Pupils should explore and experiment with a wide variety of materials, not only those listed in the programme of study, but including for example: brick, paper, fabrics, elastic, foil. Working Scientifically Chn to perform simple tests to explore questions such as 'what is the best material fora teddy's coat? a bag for? 	Seasonal changes Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies Notice the features of autumn and Winter as well as the weather Use opportunities to record the weather Observe how length of day decreases. Working Scientifically Pupils to keep records of how plants have changed over time, for example the leaves falling off trees. Pupils to keep records of how weather changes over time.	Biology Possibilities Hobbies: -Gardening -Growing fruit and veg -Keeping pets Careers: veterinary zoology farming medicine physiotherapy midwifery Dietician Optometry Dentistry Animal researcher Aquatic vet Meteorology Horticulturist People David Attenborough Steve Backshall (Steve's Deadly 60 on CBBC) Naomi Wilkinson (wild and scan)	Biology Plant ,bulb, growth, survival, temperature, climate Deciduous evergreen petals leaves fruit seed bulb Body parts, head, neck, arms, elbows, legs, knees, face, ears, hair, mouth, teeth, skeleton, organs (organ names) Physics: Season, Spring, Summer, Autumn, Winter, weather, climate Sunset Sunrise
Identify, name, draw and label the basic parts of the human body. To say which part of the human body is associated with which part. Pupils should have plenty of opportunities to learn the names of				

	the main body parts (including head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth) through games, actions, songs and rhymes. Focus should be on the basic parts of the human body and saying which part of the body is associated with each sense			Female Landscaper Radiologist Midwife Twycross Zoo Conkers Environment Environment What can be grown locally (CP) Responsibility for looking after animals and the planet (in school, at home, locally as well as nationally) Reduce, re use and re cycle	plastic, glass, brick, rock, paper, cardboard, rubber, tyre, brick, elastics, foil, variety, purpose, properties, suitable, unsuitable hard, soft, stretchy, stiff, shiny, dull, rough, smooth, bendy, waterproof, opaque, transparent
Year 1 Term 2	PlantsIdentify and describe the basicstructure of a variety of commonflowering plants.Identify and describe the basicstructure of a variety of commontrees.To become familiar with plant structures(including leaves, flowers (blossom),petals, fruit, roots, bulb, seed, trunk,branches, stem).Working Scientifically	Everyday materials Describe the simple physical properties of a variety of everyday materials on the basis of their simple physical properties. Compare and group together a variety of everyday materials on the basis of their simple physical properties. To explore, name, discuss and raise and answer questions about everyday materials so that they become familiar with the names and properties such as hard, soft: stretchy/stiff: shiny/dull: rough/smooth: bendy/not bendy: waterproof/not waterproof:	Seasonal changes Notice the features of Winter and Spring Observe weather Provide opportunities to record the weather Observe how length of day increases.	Reduce water wastage – through provision – use of water butt	

Compare and contrast familiar plants; describing how they were able to identify and group them, and drawing diagrams showing the parts of different plants including trees.		Books:
Animals including humans Identify and name a variety of common animals that are carnivores, herbivores, omnivores. Pupils to use the local environment throughout the year to explore and answer questions about animals (Pets,		hings I can be to EIP my world
animals in woodland and Spinney Hill park, Twycross Zoo) Chn to understand how to take care of animals including pets (fish in school) Working Scientifically		Diversity Urban gardening (CP) Importance of trees Sensory
Observe animals to identify using their features To identify which part of the body is associated with which sense.		impact through gardening Sensory garden Diets – vegan/
Pupils will have plenty of opportunities to learn the names of the main body parts (including head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth) through games,		Pescatarian Alternate medicine Chemistry
actions, songs and rhymes. Working Scientifically Chn to use their senses to compare different textures, sounds and smells.		Possibilities Hobbies: Upcycling (link with RRR)

				Pottery (clay	
Year 1- Term 3	Animals including humans Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets). Working Scientifically Chn to compare and contrast animals first hand, through videos and photographs, describing how to identify and group them.	Everyday materials Compare and group together a variety of everyday materials on the basis of their simple physical properties	Seasonal changes Notice the features of Spring and Summer Observe weather Provide opportunities to record the weather Observe how length of day increases.	in provision) woodwork origami arts and crafts e.g. candles, soaps, sewing, sketching Stargazing <i>Careers:</i> 3D Model Maker Jewellery maker Artist Fashion design (male examples)	Environment & Diversity: Climate change and the impact Diversity: International eco-friendly buildings. Materials used for buildings around the world. Sculptures in locality and around the world. (e.g. compare materials used for pyramids, Taj Mahal, Burj etc) Djenne Mali Grand Mosque Favelas/ shanty towns/slums

Year 2 Science				
 YEAR 2 End of Key Stage 1 Expectations: Working Scientifically Asking simple questions and recognising that they can be answered in different ways. Observing closely using simple equipment. Performing simple tests. Identifying and classifying. Using their observations and ideas to suggest answers to questions. Gathering and recording data to help in answering questions. Chemistry 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 	 Biology Living things and their habitats 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. Plants Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Animals including humans 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. Physics Seasonal changes Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies 			

Key: Teach Working Scientifically People/Places of Interest	Key concepts (Composite) Knowledge categories (Components)				Curriculum
	Biology Living things and their habitats, Plants, Animals including humans	Chemistry Everyday materials	Physics Seasonal changes	Vocabulary	Drivers
Year 2 Term 1	 Plants: Observe and describe how bulbs grow into mature plants (Longitudinal study) Planting in different environments and observe Find out and describe how bulbs need water, light and a suitable temperature to grow and stay healthy. Bulbs need water to grow but most do not need light; bulbs have a store of food inside them Perform simple tests Observe and record using simple equipment Using their observations and ideas to suggest answers to questions Animals including humans: Notice that animals, including humans, have offspring which grow into adults Introduction to reproduction and growth in animals such as a chicken, butterfly, frog, sheep. Including life stages of a human Find out about and describe the basic needs of animals, including 	 To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses by identifying the uses of different materials. To identify uses of different everyday materials. 	 Seasonal changes: Organise images or objects from each season into categories. Explain your categories Identifying and classifying Using their observations and ideas to suggest answers to questions 	Biology: bulb, germination, growth, survival, temperature, climate nutrition, reproduce, offspring, life stages Physics: Season, Spring, Summer, Autumn, Winter, weather, climate	Possibilities: <u>Hobbies:</u> • vegetable patch, gardening, • keeping pets • Exercise- Outdoor pursuits <u>Careers:</u> • horticulture agriculture Alan Titchmarsh Poppy Okotcha Botanical Gardens • veterinary • zoology • farming • medicine • physiotherapy • midwifery • pharmacology • dietician • optometry • dentistry Noel Fitzpatrick Chris Packham

	 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 Importance of exercise and nutrition for humans Asking simple questions Observe closely using simple equipment Observing closely using simple equipment. Identifying and classifying Using their observations and ideas to suggest answers to questions. 			Gillian Burk Twycross Zo Meteoro Environmer Climate impacts what ca grown Our respons for look after animals the plat Greta Thun	oo ology nt: e ss an be sibility king s and inet
Year 2 Term 2	Plants: • Observe and describe how seeds grow into mature plants (Longitudinal study) • Planting in different environments and observe • Find out and describe how seeds need water, light and a suitable temperature to grow and stay healthy. • seeds need water to grow but most do not need light; bulbs have a store of food inside them • Perform simple tests • Observe and record using simple equipment • Using their observations and ideas to suggest answers to questions	 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 Identify and discuss the uses of different everyday materials and that some materials are used for more than one thing (metal- coins, cans, cars, table legs) and that different materials can be used to make the same thing (Spoons-metal, plastic, wood but not from glass) Observing closely and comparing Identifying and classifying Recording observations 	 Seasonal changes: Show how you might know, roughly, what time it is in a day by looking at the position of the sun. Compare and contrast weather and day length across the four seasons. Identify patterns in day length across the four seasons. Asking simple questions and recognising that they can be answered in different ways. Observing closely using simple equipment. Performing simple tests. Using their observations and ideas to suggest answers to questions. 	Biology: bulb, seed, germination, growth, survival, temperature, climateDiversity contain garden urban a etsChemistry: suitable, wood, metal, plastic, glass, brick, rock, paper, cardboard, rubber, tyre, variety,Diversity contain garden urban a ets 	rian, arian, arian er s: ing y vork

			purpose, properties suitable, unsuitable Physics: Season, sunrise, sunset, daylight	Stargazing
Year 2 Term 3	 Living things and their habitats: Explore and compare the differences between things that are living, dead, and things that have never been alive All living things have certain characteristics that are essential for keeping them alive and healthy. To become familiar with the life processes that are common to all living things. Identify that most living things live in habitats to which they are suited and describe how different habitats 	 Everyday materials: Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching Explain the properties of materials that make them suitable or unsuitable for particular purposes. Consider unusual and creative uses for everyday materials. Using their observations and ideas to suggest answers to questions Perform simple tests 	Physics: living, dea never bee alive, habi microhabi food chair food sourc characteri , life proc environme shelter, seashore, woodland ocean,	n James Dyson John Dunlop tats, John Dunlop curve Theatre free, Environment: Climate change and the impact pollution has on habitats Sir David

provide for the basic needs of	rainforest, log,	Diversity:
different kinds of animals and	stony path,	International
plants, and how they depend on	bushes	eco-friendly
each other		buildings
'habitat' (a natural environment or		 Materials
home of a variety of plants and	Chemistry:	used for
animals)	suitable,	buildings
'microhabitat' (a very small habitat-	wood, metal,	around the
woodlice under stones, logs or leaf	plastic, glass,	world
litter)	brick, rock,	Famous
 Identify and name a variety of 	paper,	sculptures
plants and animals in their habitats,	cardboard,	around the
including microhabitats	rubber, tyre,	word
• Identify and study a variety of plants	variety,	Cambridge
and animals within their habitat	purpose,	Central
Compare animals in familiar habitats	properties,	Mosque
with animals found in less familiar	suitable,	Museu do
habitats (seashore, woodland,	unsuitable,	Amanhã
ocean, rainforest)	eco-friendly,	• 18 Robinson
Describe how animals obtain their	sustainable,	• The Kelpies
food from plants and other animals,	construct,	Great Sphynx
using the idea of a simple food	manipulate,	of Giza
chain, and identify and name	squashing,	• Dale
different sources of food	bending,	Chihuly's
Construct a simple food chain (grass,	twisting,	Summer
cow, human)	stretching,	Sun
Identifying and classifying		
Recording findings		
Using their observations and ideas		
to suggest answers to questions.		