



"Bringing out the best in everyone"

"Everyone matters; everyone is important"

SCIENCE A Scientist is a person who studies the world around us including things that are living and non-living.				
EYFS including nursery	Year 1	Year 2	Year 3 (KS2)	
	ANIMAL INC HUI	MANS		
Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things. Explore the natural world around them, making observations and drawing pictures of animals and plants.	Year 1 Identify and name a variety of common and birds and mammals. Identify and name a variety of common and omnivores. Describe and compare the structure of a var reptiles, birds and mammals, including pet Identify, name, draw and label the basic par of the body is associated with each sense. Year 2 Notice that animals, including humans, have	mals that are carnivores, herbivores and priety of common animals (fish, amphibians, s). rts of the human body and say which part	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support,	

	Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.		protection and movement.
	KNOWLEDG	E	
FS1 22-36 mths	Identify and name a variety of common	Understand that animals, including	Identify that animals,
Enjoys playing with small-world models such as a farm.	animals including fish, amphibians, reptiles, birds and mammals	humans, have offspring which grow into adults	including humans, need the right types and amount of nutrition, and
30-50 mths	Group animals according to what they	Describe the basic needs of animals,	that they cannot make
Observes the effects of activity on his/her body	eat.	including humans, for survival (water, food and air)	their own food; they get nutrition from what they
Can usually manage washing and drying	Identify and name a variety of common		eat.
hands	animals that are carnivores, herbivores	Describe the importance for humans of	
	and omnivores	exercise, eating the right amounts of	Identify that humans and
FS2	Describe and compare the structure of a	different types of food, and hygiene.	some other animals have
40-60 mths	variety of common animals (fish,		skeletons and muscles for
Eats a healthy range of foodstuffs and	amphibians, reptiles, birds and	Human offspring go through different	support, protection and
understands the need for variety in food.	mammals, including pets)	stages as they grow to become adults.	movement.
40-60 mths		These include baby, toddler, child,	
Shows some understanding that good	Identify, name, draw and label the basic	teenager and adult.	Animals cannot make
practices with regard to exercise, eating,	parts of the human body and say which		their own food and need
sleeping and hygiene can contribute to	part of the body is associated with each	Animals have offspring that grow into	to get nutrition from the
good health.	sense.	adults. Different animals have different	food they eat. Carnivores
Makes observations of animals and		stages of growth or life cycles.	get their nutrition from
explains why some things occur, and talk	Animals are living things. Animals can be		eating other animals.
about changes.	sorted and grouped into six main groups:	Humans need water, food, air and	Herbivores get their
40-60 mths	fish, amphibians, reptiles, birds,	shelter to survive.	nutrition from plants.
Looks closely at similarities, differences	mammals and invertebrates.		Omnivores get their
		Animals need water, food, air and shelter	nutrition from eating a
ELG	Carnivores eat other animals (meat),	to survive. Their habitat must provide all	variety of plants and
Knows about similarities and differences	herbivores eat plants and omnivores eat	these things.	other animals.
in relation to living things.	other animals and plants.		
		A healthy lifestyle includes exercise, good	Humans have to get
Knows the importance for good health of	Different animal groups have some	hygiene and a balanced diet	nutrition from what they
physical exercise, and a healthy diet, and	common body parts, such as eyes and a		eat. It is important to
talks about ways to keep healthy and	mouth, and some different body parts,		have a balanced diet
safe (ELG)	such as fins or wings.		made up of the main
			food groups, including

The basic body parts are the head, arms,		proteins, carbohydrates,
		fruit and vegetables,
		dairy products and
		alternatives, and fats and
		spreads. Humans need to
		stay hydrated by drinking
_		water.
		Humans have a skeleton
		and muscles for
		movement, support and
		protecting organs. Major
		bones in the human body
		include the skull, ribs,
		spine, humerus, ulna,
		radius, pelvis, femur,
		tibia and fibula. Major
		muscle groups in the
		human body include the
		biceps, triceps,
		abdominals, trapezius,
		gluteals, hamstrings,
		quadriceps, deltoids,
		gastrocnemius, latissimus
		dorsi and pectorals.
		Some animals have
		skeletons for support,
		movement and
		protection.
		Endoskeletons are those
		found inside some
		animals, such as humans,
		cats and horses.
		Exoskeletons are those
		found on the outside of
		some animals, such as
		beetles and flies. Some
		animals have no
		skeleton, such as slugs
		and jellyfish.
	The basic body parts are the head, arms, legs, nose, eyes, ears, mouth, hands and feet. The five senses are hearing, sight, smell, taste and touch. Ears are used for hearing, eyes are used to see, the nose is used to smell, the tongue is used to taste and skin gives the sense of touch.	legs, nose, eyes, ears, mouth, hands and feet. The five senses are hearing, sight, smell, taste and touch. Ears are used for hearing, eyes are used to see, the nose is used to smell, the tongue is used to taste

	SKILLS		
FS1	Identify, compare, group and sort a variety of common animals, including	Describe the stages of human development (baby, toddler, child,	Compare and contrast the diets of different animals.
FS2	fish, amphibians, reptiles, birds and mammals, based on observable features.	teenager and adult) Describe the basic life cycles of some	Explain the importance
	Group and sort a variety of common animals based on the foods they eat.	familiar animals (egg, caterpillar, pupa, butterfly; egg, chick, chicken; spawn, tadpole, froglet, frog).	and characteristics of a healthy, balanced diet.
	Label and describe the basic structure of a variety of common animals.	Describe what humans need to survive.	Describe how humans need the skeleton and muscles for support,
	Draw and label the main parts of the human body and say which body part is associated with which sense.	Explain how animals, including humans, need water, food, air and shelter to survive.	protection and movement.
		Describe the importance of a healthy lifestyle, including exercise, a balanced diet and good hygiene.	Identify and group animals that have no skeleton, an internal skeleton (endoskeleton) and an external skeleton (exoskeleton).
	COVERAGE		
FS1	Animals inc humans – Part 1 Senses and body parts	Animals including humans prt1 (Life cycle) Animals including humans prt 2	
FS2	Part 2 Vertebrates Animals inc humans – Part 3 Carnivores, herbivores and omnivores Animals inc humans – Part 4 Vertebrates and Invertebrates	Animals including humans prt3 (health, nutrition, exercise)	
	VOCABULARY		

FS1	backbone biomes never-living reproduce depend habitat food-chain	cold-blooded environment farm gills invertebrate pet temperature	
FS2	microhabitat	vertebrate	
Animal	minibeast	warm-blooded	
Desert	offspring	wild	
habitat	plant	carnivores	
farm	source	herbivore	
grow	vegetation	omnivore	
pet			
ocean			
jungle			
	LIVING THINGS AND TH	EIR HABITATS	
	NC STATEME	NT	
	Year 2 Explore and compare the differences betw dead, and things that have never been alive Identify that most living things live in habit suited and describe how different habitated needs of different kinds of animals and plat on each other Identify and name a variety of plants and including microhabitats Describe how animals obtain their food fr animals, using the idea of a simple food ch name different sources of food.	ve tats to which they are s provide for the basic ants, and how they depend animals in their habitats, om plants and other	
	KNOWLEDG	E	
FS1 22-36 mths	KNOWLEDG	_	
FS1 22-36 mths Notices detailed features of objects in	KNOWLEDG	Living things are those that are alive.	
FS1 22-36 mths Notices detailed features of objects in his/her environment	KNOWLEDG	_	

FS2 30-50 mths Shows care and concern for living things and the environment ELG Talks about the features of his/her own immediate environment and how environments might vary from one another	Local habitats include parks, woodland and gardens. Habitats beyond the locality include beaches, rainforests, deserts, oceans and mountains. All living things live in a habitat to which they are suited and it must provide everything they need to survive. A habitat is a place where a living thing lives. A microhabitat is a very small habitat. (E.g. rotting log or under a rock) - Food chains show how living things depend on one another for food. All food chains start with a plant, followed by animals that either eat the plant or other animals.	
	SKILLS	
FS1	Compare and group things that are living, dead or have never been alive.	
FS2	Describe a range of local habitats and habitats beyond their locality (rainforests, deserts, oceans and mountains) and what all habitats provide for the things that live there.Identify and name a variety of plants and animals in a range of habitats and microhabitats.Interpret and construct simple food chains to describe how living things depend on each other as a source of food.	
	COVERAGE	

		Living things and their habitats – prt 1	
		Habitats	
		Part 2- microhabitats	
	VOCABULARY		
FS1		Living	
		Alive	
FS2		Dead	
		Life processes	
		Never living	
		Reproduce	
		Biomes	
		Depend	
		Food chain	
		Habitat	
		Microhabitat	
		Minibeast	
		Offpring	
		Source	
		Vegetation	
		Food source	
		survive	
	MATERIALS	5	
FS1 22-36 mths	NC STATEMENT		
Notices detailed features of objects in	Year 1:		
his/her environment	Describe the simple physical properties materials.	of a variety of everyday	
FS2 EXC ELG	Compare and group together a variety of	everyday materials on the	
They are familiar with basic scientific	basis of their simple physical properties		
concepts such as floating, sinking and	Identify and name a variety of everyday materials, including wood,		
experimentation.	plastic, glass, metal, water, and rock		
	Distinguish between an object and the mat	erial from which it is made.	
ELG	Year 2:		
Knows about similarities and differences	Identify and compare the suitability of a va	ariety of everyday	
in relation toobjects, materials	materials, including wood, metal, plastic, g		
	and cardboard for particular uses.		

EXC ELG They know the properties of some materials and can suggest some of the purposes they are used for. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design,	Find out how the shapes of solid objects n can be changed by squashing, bending, tw		
texture, form and function.	KNOWLEDG	E	
FS1 FS2	A material is what an object is made from. Everyday materials include wood, plastic, glass, metal, water, rock, brick, paper and fabric. Materials have different properties, such as hard or soft; stretchy or stiff; rough or smooth; opaque or transparent; bendy or rigid; waterproof or not waterproof; magnetic or non-magnetic. Materials can be grouped according to their properties.	A material's physical properties make it suitable for particular purposes, such as glass for windows and brick for building walls. Many materials are used for more than one purpose, such as metal for cutlery and cars. Some objects and materials can be changed by squashing, bending, twisting, stretching, heating, cooling, mixing and being left to decay.	
FS1 FS2	SKTLLS Identify and name what an object is made from, including wood, plastic, glass, metal, water and rock.	Compare the suitability of a range of everyday materials for particular uses.	
	Investigate and describe the simple physical properties of some everyday materials, such as hard or soft; stretchy or stiff; rough or smooth; opaque or transparent; bendy or rigid; waterproof or not waterproof and magnetic or non- magnetic.	Describe how some objects and materials can be changed and how these changes can be desirable or undesirable.	

FS1 FS2	NC STATEME Year 1:		Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.
	PLANTS		
Autumn Winter Spring Summer Introduce: float/sink, magnetic/non- magnetic, push/pull			
paper cardboard hard soft hot cold Introduce:	dull bendy float sink weather magnetic/non-magnetic push/pull	rock object	absorbent opaque transparent
FS2 freeze ice water	bendy float sink shiny	wood metal glass brick	bend twist stretch waterproof
FS1	shiny dull	material solid	suitable unsuitable
	VOCABULARY		
FS1 FS2	Everyday materials – Part 1 Identify and name Everyday materials – Part 2 Describe, group and compare	Materials	
	COVERAGE		
	Compare and group materials in a variety of ways, such as based on their physical properties; being natural or man-made and being recyclable or non-recyclable.		

Explore the natural world around them, making observations and drawing pictures of animals and plants.	Identify and name a variety of common we including deciduous and evergreen trees.Identify and describe the basic structure of flowering plants, including trees.Year 2: Observe and describe how seeds and bulkFind out and describe how plants need wa temperature to grow and stay healthy.	of a variety of common os grow into mature plants.	of commonand growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. Investigate the way in which water is 	
	KNOWLEDG	E		
FS1 FS2	Plants are living things. Common plants include the daisy, daffodil and grass. Trees are large, woody plants and are either evergreen or deciduous. Trees	Plants grow from seeds an and bulbs need nutrients f and warmth to start grow (germinate). As the plant g	from soil, water	The plant's roots anchor the plant in the ground and transport water and minerals from the ground
	that lose their leaves in the autumn are called deciduous trees (e.g. oak, beech and rowan). Trees that keep their leaves all year round are called evergreen trees (e.g. holly and pine). The basic plant parts include root, stem, leaf, flower, petal, fruit, seed and bulb. Trees have a woody stem called a trunk.	develops leaves and flowe Plants need water, light a temperature to grow and Without any one of these will die.	nd a suitable stay healthy.	to the plant. The stem (or trunk) support the plant above the ground. The leaves collect energy from the Sun and make food for the plant. Flowers make seeds to produce new plants. Different plants have different needs depending on their habitat. Examples include cacti, which need less water than is typical, and ferns, which can grow in lower light levels. -Water is transported in plants from the roots, through the stem and to the leaves, through tiny tubes called xylem.

			- Flowers are important
			in the life cycle of
			flowering plants. The
			stages of a plant's life
			cycle include
			germination, flower
			production, pollination,
			fertilisation, seed
			formation and seed
			dispersal. Insects and the
			wind can transfer pollen
			from one plant to
			another (pollination).
			Animals, wind, water and
			explosions can disperse
			seeds away from the
			parent plant (seed
			dispersal).
	SKILLS		
FS1	Identify, compare, group and sort a	Observe and describe how seeds and	Name and describe the
	variety of common plants, including	bulbs change over time as they grow into	functions of the different
FS2	deciduous and evergreen trees, based on	mature plants.	parts of flowering plants
	observable features.		(roots, stem, leaves and
		Describe how plants need water, light	flowers).
	Label and describe the basic structure of	and a suitable temperature to grow and	Describe the
	a variety of common plants.	stay healthy.	requirements of plants
			for life and growth (air,
			light, water, nutrients
			and room to grow) and
			how they vary from plant
			to plant.

			Investigate how water is transported within
			plants.
			Draw and label the life
			cycle of a flowering plant.
	COVERAGE		
FS1	Plants – Name common plants & trees.	Plants- observe change overtime Name and group	
FS2			
	VOCABULARY		
FS1 /FS2			
	Branches	Bulb	
Plant	Bulb	Compost	
Tree	Flower	Flower	
Leaf	Flowering	Fruit	
stem	Fruit	Leaf	
grow	Herb	Leaves	
seed potato	Leaf/leaves	Petal	
compost	Petal	Plant	
bulb	Plant	Roots	
bud	Roots	Seed	
flower	Seed	stem	
petal	Stem		
seed	Tree		
soil	Trunk		
water	Common		
nutrients	Deciduous		
	Evergreen		
	Vegetable		
	Vegetation		
	Weed		
	wild		

SEASONAL CHANGE							
FS1	NC STATEMENT						
Understand some important processes	Observe changes across the four seasons.						
and changes in the natural world around	Observe and describe weather associated	with the seasons and how					
them, including the seasons and changing	day length varies.						
states of matter.							
FS2							
KNOWLEDGE							
FS1	There are four seasons: spring, summer,						
FS2	autumn and winter. Certain events and weather patterns happen in different						
F32	seasons.						
	Day length (the number of daylight						
	hours) is longer in the summer months						
	and shorter in the winter months.						
	Different types of weather include sun,						
	rain, hail, wind, snow, fog, lightning, storm and cloud. The weather can						
	change daily and some weather types are more common in certain seasons, such						
	as snow in winter.						
	SKILLS						
FS1	Observe changes across the four						
L21	seasons.						
Ec2							
FS2	Observe and describe how day length						
	changes across the year.						
	Observe and describe different types of						
	weather.						
COVERAGE							

	Canadama			
	Seasons			
FS1				
FS2				
VOCABULARY				
FS1	Autumn			
	Winter			
FS2	Summer			
	Spring Hot			
	Cold			
	Windy			
	Breeze			
	Leaf			
	Frost			
	Ice			
	Heat			
FS1	NC statemen	·		
	INC STUTEMEN	10		
FS2				
	KNOWLEDG	F		
FS1		= 		
F31				
540				
FS2				
	SKILLS			
FS1				
FS2				
	COVERAGE			

FS1			
FS2			
	KEY TEXTS	I	
FS1			
FS2			
VOCABULARY			
FS1			
FS2			