

		EYFS STATUTORY FRAMEWORK							
	AUTUMN TERM (1 <sup>st</sup> HALF)	AUTUMN TERM (2 <sup>nd</sup> HALF)	SPRING TERM (1 <sup>st</sup> HALF)	SPRING TERM (2 <sup>nd</sup> HALF)	SUMMER TERM (1 <sup>st</sup> HALF)	SUMMER TERM (2 <sup>nd</sup> HALF)			
	IT'S GOOD TO BE ME	I CAN SING A RAINBOW	ALL ABOARD	THE GREAT OUTDOORS	ALL CREATURES GREAT AND SMALL	OUR HEROES			
NURSERY (Understanding the World)	Our Body To know the names of some use them for. To learn about changes to the ababy.		Plants To distinguish between a live. To explain where plants control or grow and care for a plant. To be able to explain the life. To know what a plant needs.	me from. nt. e cycle of a plant.	Animals To know that animals are live To describe an animal's had To list some materials used To name some animals that To give a possible reason we	bitat. I to make a bird's nest. t live on a farm.			
	Make simple predictions about what they think might happen.		Make simple predictions ab happen.	out what they think might	Make simple predictions about what they think might happen.				
	Carry out simple investigation	ons in a small group.	Carry out simple investigation	ons in a small group.	Carry out simple investigati	ons in a small group.			
	ROCKET WORDS: arm, leg and mouth	g, nose, hand, foot, ear, eye	ROCKET WORDS: plant, s root, sunlight, garden.	eed, soil, water, STEM,	ROCKET WORDS: bird, cow, sheep, goat, chicken pig, bear and farm.				

			EYFS STATUTO	RY FRAMEWORK		
	AUTUMN TERM (1 <sup>st</sup> HALF)	AUTUMN TERM (2 <sup>nd</sup> HALF)	SPRING TERM (1 <sup>st</sup> HALF)	SPRING TERM (2 <sup>nd</sup> HALF)	SUMMER TERM (1st HALF)	SUMMER TERM (2 <sup>nd</sup> HALF)
	HOME SWEET HOME	SPARKLE AND SHINE	FOOD GLORIOUS FOOD	ON THE HIGH SEAS	A BUG'S LIFE	BON VOYAGE
RECEPTION	Materials To know that things can cha		Forces To know what happens if you	ou pull or push something.	Insects To learn about where insec	ets and vertebrates live.
	To understand about melting.		To understand what happe	ns when things float or sink.	To learn about insects and	invertebrates.
	To know where knitted jump	ers come from.			To learn more about insects	s and invertebrates.
	To understand the usefulness of wool and what happens to it when it gets wet.					
	To know about materials wh	ich act like mirrors.				
	To know how water changes	S.				
	Make simple predictions, ob through investigations.	servations and evaluations	Make simple predictions, observations and evaluations through investigations.		Make simple predictions, observations and evaluations through investigations.	
	ROCKET WORDS: melt, wo freeze, ice, smooth	ool, mirror, jumper, cold,	ROCKET WORDS: push, p	oull, fast, slow, press, suck	ROCKET WORDS: snail, was ladybird, fly	vorm, spider, honey, beetle,
EYFS to YEAR 1	Year 1 Subject Content EYF Programmes(Curriculum) Su Knowledge and Understand	uggested EYFS Key Skills,	Year 1 Subject Content EY Programmes(Curriculum) S Knowledge and Understand	Suggested EYFS Key Skills,	Year 1 Subject Content EY Programmes(Curriculum) S Knowledge and Understand	Suggested EYFS Key Skills,
	Year 1 Subject Content  Plants		Understanding the world in make sense of their physica community. The frequency	al world and their	Understanding the world in make sense of their physica community. The frequency	al world and their
	Animals including humans		personal experiences increases their knowledge and sense of the world around them – from visiting parks,		ases their knowledge and	
	Everyday Materials		of society such as police of		of society such as police of	

Seasonal Changes	firefighters. In addition, listening stories, non-fiction, rhymes and understanding of our culturally, and ecologically diverse world important knowledge, this exter words that support understanding	stories, non-fiction, rhymes and poems will foster to understanding of our culturally, socially, technolog and ecologically diverse world. As well as building ends their familiarity with	their gically J with
	Make simple predictions about happen     Carry out simple investigation     Explain why something happed predict what might happen nex     Identify, compare, classify and places, objects, materials and I     Talk about changes, including     Talk about their immediate end it to other environments	happen • Carry out simple investigations in a small group  ened and use this to  xt/change  nd group a variety of living things  ng the seasons  happen • Carry out simple investigations in a small group  • Explain why something happened and use this to predict what might happen next/change  • Identify, compare, classify and group a variety of places, objects, materials and living things  • Talk about changes, including the seasons	II o f

			NATIONAL C	URRICULUM		
	AUTUMN TERM (1 <sup>st</sup> HALF)	AUTUMN TERM (2 <sup>nd</sup> HALF)	SPRING TERM (1 <sup>st</sup> HALF)	SPRING TERM (2 <sup>nd</sup> HALF)	SUMMER TERM (1 <sup>st</sup> HALF)	SUMMER TERM (2 <sup>nd</sup> HALF)
YEAR 1	goals outlined above. Pleas  • Key stage 1 – year	e refer to <b>Science programn</b>	ng Experts to ensure that knones of study: key stages 1 a		nat has been taught before ar	nd towards our curricular
	EVERYDAY MATERIALS  To investigate materials	EVERYDAY MATERIALS The Three Little Pigs	ANIMALS, INCLUDING HUMANS - All about me To understand animals	ANIMALS, INCLUDING HUMANS – All about animals	SEASONAL CHANGES	PLANTS  To understand plants
	To identify and name a variety of everyday	To investigate materials and apply knowledge	and humans  To identify, name, draw	To understand animals and humans	To understand seasonal changes	To become familiar with common names of flowers and plant
	materials, including wood, plastic, glass, metal, water and rock.	To build a structure strong enough to withstand wind.	and label the basic parts of the human body and say which part of the body	To identify and name a variety of common animals including fish,	To understand there are four seasons	structures including seeds
	Distinguish between an object and the material it is made from.	To build a waterproof structure.  To understand the	is associated with each sense.  To learn about eyes and	amphibians, reptiles, birds and mammals  To describe and compare	To understand the changes that take place in autumn	To identify and describe the basic structure of a variety of common flowering plants,
	Describe the simple physical properties of a	properties of glass and its uses.	sight  To learn about eyes and sight	the structure of a variety of common animals (fish, amphibians, reptiles,	To understand the changes that take place in winter	including trees  To identify and name a
	variety of everyday materials	To understand that materials are used to create	hearing  To explore the tongue and	birds and mammals, including pets)	To understand the changes that take place in	variety of common wild and garden plants
	Compare and group together a variety of everyday materials on	a variety of furniture.	taste  To explore the sense of	To learn about the differences Between amphibians,	spring  To understand the	To identify and name a variety of deciduous and evergreen trees
	the basis of their simple physical properties.	To explore a variety of fabrics and understand their different properties.	touch  To discover how your	reptiles and fish  To identify and name a	changes that take place in summer	To understand how plants change over time
	Compare and group together a variety of everyday materials on		nose smells	variety of common animals that are	To observe and describe weather associated with	To observe the growth of planted flowers

	the basis of their simple physical properties.  Describe the simple physical properties of a variety of everyday materials.	Explain the uses of materials and why they are suitable.		carnivores, herbivores and omnivores  To explore the difference between wild animals and pets  To explain the characteristics of an animal	the seasons and how day length varies	Become familiar with plant structures Keep records of how plants change over time
Working Scientifically	<ul> <li>asking simple questions</li> <li>observing closely, using</li> <li>performing simple tests</li> <li>identifying and classifying</li> <li>using their observations</li> </ul>		in be answered in different was a second of the second of		through the teaching of the p	programme of study content:
Rocket Words	material, fabric, wood, plastic, metal, object, glass, property, brick, elastic, opaque, transparent, dull, stiff, natural, manmade, factory, rubber, polyester, predict, float, sink, submerge, buoyant	solid, strong, brick, clay, wind, waterproof, absorbent, non-absorbent, roof, slate, transparent, opaque, suitable windowpane, window frame, fabric, furniture, cotton, mattress soft, wool, weather, jumper suitable, evaluate, material, properties, tile, garden	head, body, skeleton, limb, joint, brain, eyelash, eye, sight, pupil, sound, ear sign language, vibration, deafness, tongue, mouth, taste, flavour, sweet, touch, fingertips, skin, organ, brain smell, odour, nose, nostril, nose hair	fish, amphibian, reptile, mammal, bird, feather, warm-blooded, characteristic, backbone, hatchling, reptile, gills, scale, cold-blooded, herbivore, carnivore, omnivore, predator, canines, pet, wild, shelter, veterinary, natural, similarities, differences, compare, unsuitable, climate	season, spring, summer, autumn, winter, weather, protect, harvest, frost, sleet, temperature, compare, changes, grow, chick, warm, sun protection, temperature, heatwave, rainfall, measuring, record, results, graph	seed, plant, tree, soil, predict, stem, petal, leaf, root, flower, environment, weed, daisy, dandelion, wild, deciduous, evergreen, seasons, branch, bush, supermarket, fruit, vegetable, farm, tractor
YEAR 2	goals outlined above. Pleas  • Key stage 1 – yea	ional curriculum and Developi se refer to <u>Science programs</u> r 2 ( <i>pages 10 – 12</i> ) ts Year 2 Curriculum Map			I nat has been taught before ar	I nd towards our curricular

USES OF EVERYDAY	ANIMALS, INCLUDING	ANIMALS, INCLUDING	LIVING THINGS AND	LIVING THINGS AND	<u>PLANTS</u>
MATERIALS	HUMANS – Health & survival	<u>HUMANS – Life Cycles</u>	THEIR HABITATS	THEIR HABITATS – Habitats around the	To understand plants
To investigate materials	To understand animals and humans	To understand life cycles of different mammals	To investigate living things	world  To investigate habitats	To know the difference between seeds and
To identify different materials and their uses	To describe the needs of animals for survival	To order the stages of the human life cycle	To explore and compare the differences between	To learn about habitats	bulbs  To design an experiment
To understand how to select the right materials to build a bridge	To describe the needs of humans, for survival	To describe the stages of a human life cycle	things that are living, dead, and things that have never been alive	To appreciate that environments are constantly changing	to find out what plants need to grow
To find out how the shapes of solid objects made from some	To explore the importance of eating the right food	To identify the offspring and parent of an animal	To identify and name a variety of plants and	To explore the rainforest and its	To describe what plants need to grow and stay healthy
materials can be changed by squashing, bending, twisting and stretching	To describe what a healthy, balanced diet looks like	To explore the life cycle of a chicken	animals in a microhabitat  Design a suitable microhabitat where	roblems  To describe life in the Ocean	To understand the requirements of plants for germination, growth
To understand that materials can change	To investigate the impact of exercise on our bodies	To describe the life cycle of a butterfly	living things could survive	To discover the Arctic and Antarctic habitat	and survival, as well as, the processes of reproduction and
their shape by twisting, bending, squashing or stretching	To investigate the importance of hygiene	To explore the life cycle of a frog	Find out what animals eat to survive in their habitats  Understand a food chain	To create a model of a habitat	growth in plants  To observe and record the growth of plants
To find out about Charles Macintosh and explore how materials are suitable			Understand the journey food makes from the farm		overtime  To understand that
for different purposes			to the supermarket		plants adapt to suit their environment
To discover which materials change shape when making a road with John McAdam					
	and recognising that they ca simple equipment	following practical scientific n n be answered in different wa		through the teaching of the p	programme of study content:

		g data to help in answering qu	uestions			
Rocket Words	material, property, suitable, object, brick, bridge, triangle, obstacle, structure, construction, stretchy, elastic, floppy, hinder, limit, bend, twist, squash, stretch, force, mackintosh, protective, fluorescent, safety, waterproof, merchant, bound, highway, road	survival, shelter, nutrition, oxygen, essential, vital, non- essential, survive, grow, healthy, protein carbohydrate, dairy, vitamins, calcium, fat, balanced diet, nutrients, fresh food, pre-cooked, processed food, exercise, strength, flexibility, balance, coordination, hygiene, prevent, germs, bacteria, virus	adult, foetus, womb, helpless, toddler develop, offspring, inherit, gene resemble, differences, reproduction hatchling, chick, bar chart, predict, caterpillar, transformation, larva, chrysalis, metamorphosis, frog, amphibian, frogspawn, tadpole, froglet	survive, shelter, antennae, suitable, condition, colony, insect, producer, consumer, herbivore, carnivore, omnivore, food chain, life cycle, nutrients, rot, caterpillar, automated, frozen food, forklift truck, refrigerated, lorry, canned	organism, environment, mate, rainforest, moisture, extinct, climate, endangered, biodiversity, deforestation, poaching, pollution, rainforest, plankton, ocean, ecosystem coral reef, trench, Antarctic, Arctic, caribou, narwhal tundra, earthworm, desert lizard, cactus, pond	seeds, bulbs, growth, plant, compare predict, investigate, control, experiment, method, photosynthesis, carbon dioxide, oxygen, glucose, energy, pollination life cycle, germination, reproduction, seedling, manure, crop, insulate, thrive, healthy, forest, desert, adapt, condition, survive
YEAR 3	goals outlined above. Pleas  • Lower key stage 2	 ional curriculum and Develop se refer to <u>Science program</u> ! – year 3 ( <i>pag</i> es 16 – 19) ts Year 3 Curriculum Map	ing Experts to ensure that knomes of study: key stages 1	 owledge and skills build on wh <u>and 2:</u>	 nat has been taught before ar	d towards our curricular
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experi	se refer to <u>Science program</u> 2 – year 3 ( <i>pages 16 – 19</i> ) ts Year 3 Curriculum Map	mes of study: key stages 1	and 2:		
YEAR 3	goals outlined above. Pleas  • Lower key stage 2	se refer to <b>Science program</b> 2 – year 3 ( <i>pages 16 – 19</i> )	ing Experts to ensure that known mes of study: key stages 1	owledge and skills build on whand 2:  LIGHT To understand light	<u>PLANTS</u>	SCIENTIFIC ENQUIRY How can a solar oven be
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks	se refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING	mes of study: key stages 1	and 2: LIGHT		SCIENTIFIC ENQUIRY
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks  Explore the formation and	se refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS	FORCES AND MAGNETS To understand movement, forces and	LIGHT To understand light and seeing	PLANTS To understand plants Compare the effect of	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experion  ROCKS  To understand rocks  Explore the formation and properties of igneous	se refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans	FORCES AND MAGNETS To understand	LIGHT To understand light and seeing Identify the difference	PLANTS To understand plants  Compare the effect of different factors on plant	SCIENTIFIC ENQUIRY How can a solar oven be made more effective:
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks  Explore the formation and	se refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food	FORCES AND MAGNETS To understand movement, forces and magnets	LIGHT To understand light and seeing Identify the difference between light sources and	PLANTS To understand plants Compare the effect of	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experion  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks	se refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans	FORCES AND MAGNETS To understand movement, forces and magnets  Explore contact and	LIGHT To understand light and seeing Identify the difference	PLANTS To understand plants  Compare the effect of different factors on plant growth	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experion  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks  Explore the formation and	ee refer to Science programs  - year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food groups	FORCES AND MAGNETS To understand movement, forces and magnets	LIGHT To understand light and seeing Identify the difference between light sources and non-light sources	PLANTS To understand plants  Compare the effect of different factors on plant growth  Identify and describe the	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be made more effective:
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experion  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks	se refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food	FORCES AND MAGNETS To understand movement, forces and magnets  Explore contact and	LIGHT To understand light and seeing Identify the difference between light sources and	PLANTS To understand plants Compare the effect of different factors on plant growth Identify and describe the functions of different parts	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks  Explore the formation and properties of sedimentary and metamorphic rocks	ee refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food groups  Learn about the nutrition in the food we eat	FORCES AND MAGNETS To understand movement, forces and magnets  Explore contact and noncontact forces  Compare how things move on different	LIGHT To understand light and seeing  Identify the difference between light sources and non-light sources  Explore the light that	PLANTS To understand plants  Compare the effect of different factors on plant growth  Identify and describe the functions of different parts of a flowering plant and how they	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be made more effective: recording and presenting results
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks  Explore the formation and properties of sedimentary and metamorphic rocks  Weathering and the	ee refer to Science programs - year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food groups  Learn about the nutrition in the food we eat  Learn about the different	FORCES AND MAGNETS To understand movement, forces and magnets  Explore contact and noncontact forces  Compare how things	LIGHT To understand light and seeing Identify the difference between light sources and non-light sources Explore the light that comes from the sun and	PLANTS To understand plants Compare the effect of different factors on plant growth Identify and describe the functions of different parts of a flowering plant and how they are used in	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be made more effective: recording and presenting results  Cleaning coins: writing a
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks  Explore the formation and properties of sedimentary and metamorphic rocks  Weathering and the suitability of rocks for	ee refer to Science programs 2 – year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food groups  Learn about the nutrition in the food we eat	FORCES AND MAGNETS To understand movement, forces and magnets  Explore contact and noncontact forces  Compare how things move on different surfaces	LIGHT To understand light and seeing Identify the difference between light sources and non-light sources  Explore the light that comes from the sun and how to stay safe	PLANTS To understand plants  Compare the effect of different factors on plant growth  Identify and describe the functions of different parts of a flowering plant and how they	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be made more effective: recording and presenting results  Cleaning coins: writing a method and carrying out
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks  Explore the formation and properties of sedimentary and metamorphic rocks  Weathering and the	ee refer to Science programs - year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food groups  Learn about the nutrition in the food we eat  Learn about the different types of skeletons	FORCES AND MAGNETS To understand movement, forces and magnets  Explore contact and noncontact forces  Compare how things move on different surfaces  Explore different types of	LIGHT To understand light and seeing Identify the difference between light sources and non-light sources  Explore the light that comes from the sun and how to stay safe  Explore materials which	PLANTS To understand plants  Compare the effect of different factors on plant growth  Identify and describe the functions of different parts of a flowering plant and how they are used in photosynthesis	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be made more effective: recording and presenting results  Cleaning coins: writing a
YEAR 3	goals outlined above. Pleas  Lower key stage 2  Developing Experior  ROCKS  To understand rocks  Explore the formation and properties of igneous rocks  Explore the formation and properties of sedimentary and metamorphic rocks  Weathering and the suitability of rocks for	ee refer to Science programs - year 3 (pages 16 – 19) ts Year 3 Curriculum Map  ANIMALS, INCLUDING HUMANS To understand animals and humans  Explore the 5 key food groups  Learn about the nutrition in the food we eat  Learn about the different	FORCES AND MAGNETS To understand movement, forces and magnets  Explore contact and noncontact forces  Compare how things move on different surfaces	LIGHT To understand light and seeing Identify the difference between light sources and non-light sources  Explore the light that comes from the sun and how to stay safe	PLANTS To understand plants Compare the effect of different factors on plant growth Identify and describe the functions of different parts of a flowering plant and how they are used in	SCIENTIFIC ENQUIRY How can a solar oven be made more effective: posing questions and writing predictions  How can a solar oven be made more effective: recording and presenting results  Cleaning coins: writing a method and carrying out

	Explore how water contributes to the weathering of rocks  Understand how fossils are formed  Explore different types of soil	Learn about animals and their skeletons  Explore the role of muscles	Explore the properties of magnets and everyday objects that are magnetic  Understand that magnetic forces can act at a distance  Explore the everyday uses of magnets	Discover how shadows are formed  Investigate how shadows change throughout the day  Investigate how you can change the size of a shadow	Explore the part that flowers play in the life cycle of flowering plants  Understand the pollination process and the ways in which seeds are dispersed Compare the effect of different factors on plant growth	Making a cake: fair testing, controls and variables  Making a cake: scientific enquiry
Working Scientifically	<ul> <li>asking relevant question</li> <li>setting up simple praction</li> <li>making systematic and attention</li> <li>gathering, recording, claim</li> <li>recording findings using</li> <li>reporting on findings from the using results to draw similating differences, see</li> </ul>	ns and using different types of cal enquiries, comparative and careful observations and, who	f scientific enquiries to answer d fair tests ere appropriate, taking accura in a variety of ways to help in rawings, labelled diagrams, k ad written explanations, displa ctions for new values, sugges to simple scientific ideas and	er them  ate measurements using stan answering questions teys, bar charts, and tables ays or presentations of results at improvements and raise ful		
Rocket Words	igneous rocks, intrusive igneous rock, extrusive igneous rock, crystals, magma, sedimentary rock metamorphic rock limestone marble sandstone weathering chemical weathering physical weathering biological weathering acid rain, appearance, texture submerged, erosion, receding fossil, extinct, sediment embedded, amber, decompose,	nutrition carbohydrate protein vitamin mineral nutrition label portion energy balanced diet vertebrate invertebrate endoskeleton exoskeleton hydrostatic skeleton humerus ulna radius tibia fibular endoskeleton vertebrate skull rib cage spine muscle contract hamstrings biceps diaphragm	force, contact, force, non- contact forces air resistance, friction, motion, surface resistance, texture, tilt, magnet, attract repel, bar, magnet magnetism, magnetic, field, iron steel non-contact, forces, magnetism, attract non- magnetic, materials, recycle compass, magnetic needle	light, source, natural artificial, reflect, vitamin D ultraviolet, rays, sunburn exposure, protection fluorescent, high visibility reflective, surface, materials shadow, opaque, sundial rays, blocks, position, cast opposite, direction, length size, shape, closer, further puppet	nutrients fertiliser nursery potassium stunted chlorophyl stomata xylem photosynthesis UV light xylem phloem absorb stomata transpiration anther stigma style filament reproduction pollination pollen nectar seed dispersal pollinator germination vulnerable anchor sapling formation	solar renewable energy scientific investigation prediction plausible record results data table graph acid alkali PH method practical conclusion evidence explanation compare enquiry baking measurements fair test control experiment variable conclusive scientific knowledge equipment diagram collated

			1	1	1	1			
	fragments, clay, soil,		magnetic north direction						
	chalky, soil sandy soil		orienteering						
YEAR 4	In Year 4, we study the national curriculum and Developing Experts to ensure that knowledge and skills build on what has been taught before and towards our curricular								
	goals outlined above. Please refer to Science programmes of study: key stages 1 and 2:								
	• Lower key stage 2 – year 4 (pages 20 – 23)								
	Developing Experts Year 4 Curriculum Map								
	ELECTRICITY	ANIMALS, INCLUDING	STATES OF MATTER	SOUND	LIVING THINGS AND	LIVING THINGS AND			
	To understand	<u>HUMANS</u>	To investigate materials	To investigate sounds	THEIR HABITATS	THEIR HABITATS -			
	electrical	To understand animals		and hearing	To investigate living	CONSERVATION			
	circuits	and	Compare and group the 3		things and their habitats	To investigate living			
		humans	states of matter	Identify how sounds are		things and their habitats			
	Explore electrical			made	Explore different habitats				
	appliances and electrical	Identify the organs in the	Explore how particles			Describe ecosystems and			
	safety	digestive system	behave in solids, liquids,	Explore how vibrations	Research a habitat	how they are affected by			
			and gases	from sounds travel		changes in the seasons			
	Learn about electrical	Describe the functions of		through a medium to the	Explore how animals can				
	components in a series	the main organs in the	Investigate melting points	ear	be	Understand human			
	circuit	digestive system			classified	impact on the			
			Explore freezing and	Explore sound insulation		environment through			
	Investigate electrical	Identify the types of	boiling points		Create a classification key	deforestation			
	circuits	human		Explore volume					
		teeth and their functions	Explore evaporation and		Adaptations and	Explore air pollution			
	Explore conductors and		condensation	Explore pitch	classification within				
	insulators	Investigate the effects of			species	Understand water			
		different liquids on the	Understand the water	Explore sounds from near		pollution			
	Learn about electrical	teeth	cycle	and from far	Explore and classify pond				
	switches				plants	Explore methods that can			
		Understand food chains				be used to conserve			
	Investigate how electrical					water			
	components can change	Explore food webs							
	within a circuit					Understand that humans			
						can have a positive			
						impact on nature			
NA/ a mlaine as	During years 2 and 4 mind	Is should be taught to use the	following practical asiantific	nothodo processos or d skills	through the teaching of the	regreement of study contents			
Working			<b>.</b>		s unough the teaching of the p	orogramme or study content:			
Scientifically	•	ns and using different types of	•	er tnem					
		cal enquiries, comparative an							
		careful observations and, wh	ere appropriate, taking accura	ate measurements using star	idard units, using a range of e	equipment, including			
	thermometers and data	loggers							

	gathering, recording, classifying and presenting data in a variety of ways to help in answering questions							
		g simple scientific language, d		= -				
		om enquiries, including oral ar		=	and conclusions			
	using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions							
	<ul> <li>identifying differences, similarities or changes related to simple scientific ideas and processes</li> </ul>							
	<ul> <li>using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>							
	using straignitionward scientific evidence to answer questions or to support their findings.							
Rocket Words	electricity batteries mains electricity appliance socket circuit series circuit component cell voltage current power battery wire bulb conductor insulator metal copper rubber switch current control complete circuit incomplete circuit incomplete energy renewable energy wind turbines solar panels hydropower	digestive system oesophagus stomach small intestine large intestine saliva peristalsis absorb liver gall bladder incisors canines molars jaw gum enamel plaque tooth decay cavity fluoride ecosystem producer consumer prey predator food web tundra hide interdependence threatened	matter solid liquid gas volume particle bond arranged cooled heated particle melting point temperature thermometer freezing reverse boiling sublimation deposition evaporation condensation absorb water vapour process water cycle precipitation surface runoff transpiration groundwater	vibration medium waves eardrum signals source energy particles echo vacuum materials reflect absorb insulate defenders' volume decibels decibel metre amplitude power pitch high pitch low pitch instruments orchestra energy particles travel sound source fade	habitat microhabitat conditions adapted camouflage coastal grassland environment climate exposure classify characteristics vertebrate invertebrate species sub-groups identify criteria classification keys organism adapted region features colouring blubber ecosystem oxygenised flowering plant non-flowering plant pond dipping	ecosystem Northern Hemisphere Southern Hemisphere migrate monsoon rainforest deforestation drought biodiversity recycling fossil fuels pollution greenhouse gases emissions climate change chemicals sewage contaminate pesticides water treatment plant conserve drought freshwater pure water butt endangered marine sanctuaries protect conservation areas recycling		
YEAR 5	goals outlined above. Pleas  Upper key stage 2  Developing Exper	ional curriculum and Developi se refer to <u>Science programr</u> 2 – year 5 ( <i>pages 27 – 30</i> ) ts Year 5 Curriculum Map	nes of study: key stages 1	and 2 <u>:</u>	·			
	PROPERTIES OF	CHANGE OF	<u>FORCES</u>	EARTH AND SPACE	ANIMALS, INCLUDING	LIVING THINGS AND		
	MATERIALS	MATERIALS	To understand	To understand the Earth's	<u>HUMANS</u>	THEIR HABITATS		
	To investigate materials	To investigate materials	movement, forces and	movement in space	To understand animals	To understand living		
	For larie way 10 1	Haramanan (	magnets	Fundamental and the	and humans	things and their habitats		
	Exploring properties of	Use evaporation to	Evolore growity and the	Explore the solar system	Identify the less stores of	Understand the life		
	materials	recover	Explore gravity and the	and its planets	Identify the key stages of	Understand the life		
	Evelone the same of	the solute from a solution	life and work of Isaac	Lindonator di the	a mammal's life cycle	process of a plant		
	Explore thermal	December of decemb	Newton	Understand the	Evelone the greatetter	Lindonatonal Historia		
	conductors and thermal	Recognise and describe		heliocentric model of the	Explore the gestation	Understand the life		
	insulators	reversible changes		solar system	periods	cycles of mammals		

	Explore the hardness of materials  Discover materials that become soluble in water  Investigate the solubility of materials  Explore how mixtures could be separated by filtering, sieving, evaporating or magnets	Observe chemical reactions and describe how we know new materials are made Investigate rusting reactions Investigate burning reactions Investigate chemical reactions - acids and bicarbonate of soda	Examine the connection between air resistance and parachutes  Explore factors which affect an object's ability to resist water  Investigate the effects of friction on different surfaces  Investigate mechanisms - levers and pulleys  Investigate mechanisms - gears	Explain the Earth's movement in space  Explain the Earth's rotation and night and day  Explain the movement of the Moon  Design a planet using knowledge gained	of mammals  Learn about foetal development  Investigate the hand span of different aged children  Learn about the changes experienced during puberty  Describe the changes humans may experience during adulthood and old age	Compare the life cycles of insects and amphibians  Understand the life cycle of birds and reptiles  Know about the life and work of Jane Goodall and David Attenborough  Research and present the life cycle of a creature
Working Scientifically	<ul> <li>planning different types</li> <li>taking measurements, u</li> <li>recording data and resu</li> <li>using test results to make</li> <li>reporting and presenting forms such as displays a</li> </ul>	of scientific enquiries to answasing a range of scientific equalts of increasing complexity use predictions to set up further findings from enquiries, incland other presentations	wer questions, including recognipment, with increasing accurations scientific diagrams and for comparative and fair tests	gnising and controlling variable acy and precision, taking repeabels, classification keys, tabels ationships and explanations of	through the teaching of the pes where necessary eat readings when appropriat les, scatter graphs, bar and lift and a degree of trust in results.	e ne graphs
Rocket Words	conductive magnetic durable transparent versatile thermal conduction molecules degrees Celsius (°C) insulator hardness force iron steel stone dissolve solute insoluble soluble solvent solute solvent solution substance saturation pure substance mixture filtering sieving evaporation	pure substance solute solvent solution evaporate reversible mixture physical change melting evaporate irreversible chemical change compare effervescence product fair test variable control variable corrosion rusting combustion fuel oxygen extinguish smother reaction predict	Sir Isaac Newton gravity astronomy weight mass Galileo Galilei air resistance opposing streamlined parachute water resistance streamlined upthrust buoyant sink friction resistance lubricant Newton meter Newton lever load pivot fulcrum pulley mechanism gear	terrestrial planet gas giant planets Solar System spherical orbit astronomy heliocentric geocentric dwarf planet orbit axis poles season hemisphere orbit sundial time zone gnomon dial shadow moon phase waxing waning eclipse rocky planet gas planet moon orbit solar system	foetus dependent adolescent puberty reproduce gestation pregnant duration extreme breeding womb umbilical chord embryo trimester midwife growth spurt childhood motor skills milk teeth constant adolescence puberty hormones mood swing develop lifestyle keratin elasticity cataracts neurodegenerative	reproduction asexual fertilisation tuber genes pouch mammary glands placental mammal monotreme mammal marsupial metamorphosis caterpillar amphibian larva pupa egg fledgling egg tooth hatch embryo documentary naturalist primatologist endangered natural

		acid bicarbonate of soda carbon dioxide	mesh rack and pinion bevel gear			sciences living organism reproduction life cycle vertebrate warmblooded
YEAR 6	goals outlined above. Pleas  • Upper key stage 2	onal curriculum and Developi se refer to <u>Science programm</u> – year 6 ( <i>pages 31 – 34</i> ) ss Year 6 Curriculum Map		owledge and skills build on whand 2:	anat has been taught before an	d towards our curricular
	To investigate light and seeing	To understand electrical circuits	INHERITANCE To understand evolution and inheritance	THEIR HABITATS To understand plants	HUMANS To understand animals and	ENVIRONMENT  To understand animals and humans
	Explore how light travels  Explore reflection	Describe the parts of an electric circuit	Understand how offspring vary and are not identical to their	Classify living organisms Understand the kingdoms of life	humans  Understand the function of the	Learn about climate change
	Explore reflection and explain how it can be used to help us see	Explore voltage and its effect on an electrical circuit	parents  Learn about animal adaptations	Classify living things using the Linnaean system	heart and its role in the circulatory system  Identify and compare	Explore ways to reduce how much rubbish is sent to landfill
	Investigate how shadows can change  Investigate how we can	Apply knowledge to identify and correct problems in a circuit	Learn about plant adaptations	Identify the characteristics of different types of microorganisms	blood vessels Explore blood	Explore ways to reduce energy consumption  Explore what happens
	show why shadows have the same shape as the object that casts them	Investigate what affects the output of a circuit	Explore what we can learn from fossils	Investigate asexual reproduction through spore dispersal	Learn how the body transports water and	when fuels are burnt  Explore the outcomes of
	Investigate how we see objects	Build a set of traffic lights  Apply knowledge of	Explore the theory of evolution  Explore human evolution	Classify and describe a living organism	nutrients Investigate what affects your heart rate	COP26 Compare data associated with the weather
		conductors and insulators			Learn about the impact of drugs and alcohol on the body	

#### KEY: PHYSICS STRAND BIOLOGY STRAND CHEMISTRY STRAND

# Working Scientifically During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations
- identifying scientific evidence that has been used to support or refute ideas or arguments

using test results to make predictions to set up further comparative and fair tests

Developing Experts working scientifically in Year 6: Design an investigation to test hypothesis.

Predict what will happen explaining why E.g. If my hypothesis is true, then I predict we will...

Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. Make the test fair (dependent and independent variables).

Write an effective conclusion using PEEL.

#### Rocket Words

light eye light source symbol scientific diagram reflected prediction fair test variable table periscope angle mirror line of sight utilise shadow block opaque transparent translucent plan sun shade real life problem rotate direction optical phenomena disperse spectrum refraction

symbol circuit circuit diagram battery wires electricity current voltage voltmeter brightness blown resistor variable resistor LED dimmer switch output variable fair test control test systematically synchronised traffic light signal sensor timerbased closed electric circuit indicating conductor insulator resistor

offspring characteristics inherit variation environmental adaptation habitat climate nutrition feature nutrients epiphytes toxic predators pollinate fossil Mary Anning Palaeontologist ichthyosaurus Jurassic coast Charles Darwin evolved extinct natural selection theory ancestor tools primate Homo sapien Neanderthal

classify microorganism
fern living organism
conifer kingdom mrs gren
cell multicellular
unicellular Carl Linnaeus
classification Latin
species domain
microorganism bacteria
fungi virus protozoa plant
microscopic fungi
mycelium ecosystem
classify microorganism
living organism habitat
reproduction

circulatory system atrium ventricle vessel valves vessel artery vein capillary microscope blood plasma platelet white blood cell red blood cell absorb diffusion osmosis concentration nutrients diet exercise heart rate BPM pulse drug painkiller stimulant depressant hallucinogens

weather climate prevent global warming climate change recycle landfill rubbish biodegrade council net zero renewable nonrenewable greenhouse gases emissions industrial revolution fossil fuel coal combustion fuel COP sustainability conference pledge subsidy species sensitive natural disaster habitat vulnerable

