



**Scargill C of E Primary School**  
**Science Vocabulary Progression**



<b>Tier 2 Vocabulary</b>				<b>Tier 3 Vocabulary</b>							
Academic vocabulary that appears across topics and content areas (not commonly used in conversation but essential for comprehension)				Subject specific academic language							
<b>Reception Vocabulary</b>											
Working Scientifically				look, see, hear, read, describe, similar, different, change, understand, world, science, scientist, observe							
Animals including Humans				face, hair, leg, knee, arm, elbow, shoulder, back, head, toes, ear, hands, eye, fingers, mouth, nose, animal, human, living things, life, alive, wild, pet, similar, different, change, activity, healthy, food, nocturnal							
Plants				plant, leaf, tree, petals, trunk, fruit, branch, roots, leaves, bulb, flowers, seed, stem, growth, decay, wild, common, life, alive, living things, water, care for, earth/soil, wild, pot, soil							
Living Things and their Habitats				similarity, difference, patterns, change, place, living things, plant, animal, human, care for, look after, habitat, environment, litter, pollution							
Materials				material, hard, soft, wood, metal, plastic, paper, cardboard, waterproof, ice, melt, freeze, steam, rock, heavy, light, rough, smooth, shiny, dull, fabric, glass							
Light, Sound and Electricity				light, dark, shine, sound, music, instrument, noise, loud, quiet, soft, volume							
Forces, Earth and Space				force, push, pull, turn, float, sink, magnetic, magnet, repel, attract, world, sun, moon, Earth, night, day, planet, space, telescope, star							
Seasonal Changes				seasons, weather, nature, change, day, night, spring, summer, autumn, winter, Sun, dark, warmer, colder, plants, animals, harvest, holiday, light, moon, environment							
<b>Reception Non-negotiable Vocabulary</b>											
<b>Autumn 1</b>		<b>Autumn 2</b>		<b>Spring 1</b>		<b>Spring 2</b>		<b>Summer 1</b>		<b>Summer 2</b>	
Happy to be Me!		Time Detectives		Environments and Habitats		How Does Your Garden Grow?		Bugs Life		Around the World in a Term	
season/natural/nature / growth/healthy		experiment/predict/space/ materials/		food/farm/growth/ animals/ice/ melt/liquid/ solid		plants/sunlight/soil/bean/ roots/leaf		pollen/mini-beast/snail/caterpillar, life cycle, butterfly		float/sink/predict/investigate/ weather	
<b>National Curriculum Unit Animals including Humans (Biology)</b>											
<b>KS1</b>				<b>LKS2</b>				<b>UKS2</b>			
Tier 2		Tier 3		Tier 2		Tier 3		Tier 2		Tier 3	
Backbone	Healthy	Carnivores		Backbone	Relax	Vertebrate/s	Tendons	Adulthood	Life-cycle	Adolescence	Hormone/al
Environment	Hygiene	Gills		Human	Protect	Mammals	Cranium	Developmen	Process	Foetus	Infancy
Temperature	Medicine	Cold-blooded		Survive	Bones	Amphibian	Pelvis	t	Mature	Genitals	Menopause
Wild	Muscles	Herbivore		Healthy	Connected	Reptile	Triceps	Growth	Organ	Gestation	Menstruatio
Balance/d	Pictogram	Invertebrate		Organ	Knee	Endoskeleto	Biceps	Independent	Rapid	Puberty	n
Senses	Survive	Omnivore		Joints	Ribs	n	Spine	Toddler	Chemical	Reproductio	Offspring
Balanced	Treatment	Vertebrate		Muscles	Elbow	Femur	Protein	Elderly	Survival	n	Respiration



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Diet Bar chart Bones Disease Life-cycle	Features Unique Fish Bird	Warm-blooded Off-spring Mammals Amphibian Reptile Skeleton Skull Brain	Contract Unhealthy Energy Fats Water Disease Process Environment Nutrients	Ankle Hip Diet Balanced Hygiene Absorb Stomach Nutrition	Exoskeleton Invertebrates Starchy Skeleton Digestive Digested Canine Incisor Premolar Molar Saliva Faeces Ingested Classify Food chain/web Producer Primary consumer Secondary consumer	Carbohydrates Vitamins Minerals Fibre Omnivore Carnivore Herbivore Excretion Plaque Enamel Tooth decay Intestine Oesophagus Classification Habitat Microhabitat Organism Predator Prey Tertiary consumer	Adult Teenager Veins Pulse Organ Via	Heart Lungs Exercise Function Ventilation	Vertebrate Blood vessels Arteries Oxygenated Atrium Ventricle Vena cava Aorta	Digestive system Circulatory system Deoxygenated Nutrients Oxygen Carbon dioxide Capillaries
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**National Curriculum Unit  
Plants (Biology) – Years 1, 2 and 3**

KS1		LKS2				UKS2	
Tier 2		Tier 2		Tier 3			
Branches	Stem	Common	Flowering	Deciduous	Stigma		
Bulb	Seed	Wild	Structure	Evergreen	Dispersed		
Common	Trunk	Function	Temperature	Vegetation	Fertilisation		
Herb	Wild	Life cycle	Petals	Vegetation	Ovule		
Petal	Weed	Mature	Pollen	Germination	Anther		
Roots	Blossom	Roots	Absorb	Carbon	Dissect		
		Bulb	Transported	dioxide	Fertiliser		
		Seed	Fruit	Nutrients			
		Stem		Pollination			
		Trunk					



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		Branch Healthy							
<b>National Curriculum Unit Living Things and their Habitats (Biology) – Years 2, 4, 5 and 6</b>									
<b>KS1</b>			<b>LKS2</b>				<b>UKS2</b>		
Tier 2		Tier 3	Tier 2		Tier 3		Tier 2		Tier 3
Common	Mini-beast	Habitat	Criteria	Vertebrate	Herbivore	Bulb	Structure	Anther	Cell
Survive	Evidence	Biomes	Mini-beast	Invertebrate	Biomes	Function	Transferred	Dispersed	Gamete
Depend	Exist	Vegetation	Nutrition	Carnivore	Classification	Flowering	Identical	Dissect	Germination
Woodlands	Healthy	Carnivore	Sensitivity	Omnivore	key	Life cycle	Environment	Embryo	Metamorpho
Coast/Ocean	Shelter	Omnivore	Urban	Deciduous	Organism	Mature	Characteristi	Fertilisation	sis
/River/Pond		Herbivore		Evergreen	Reproductio	Pollen	cs	Pollination	Ovary
Desert		Food chain		Excretion	n	Petal	Criteria	Reproductio	Ovule
Source		Microhabitat		Food chain	Respiration	Seed	Energy	n	Stigma
		Off-spring		Habitat	Vegetation	Mini-beast	Adapt	Reproduce	Sexual/asex
		Vertebrate		Life		Evolve		Invertebrate	ual
		Invertebrate		processes				Vertebrate	Classification
		Tundra		Microhabitat				Adaptation	key
								Carnivore	Herbivore
								Evolution	Invertebrate
								Habitat	Microhabitat
								Food chain	Microorganis
								Omnivore	m
								Organism	Species
								Predator	Vertebrate
								Prey	
<b>National Curriculum Unit Materials (Chemistry) – Years 1, 2, 4 and 5</b>									
<b>KS1</b>			<b>LKS2</b>				<b>UKS2</b>		
Tier 2		Tier 3	Tier 2		Tier 3		Tier 2		Tier 3
Material	Fabric	Transparent	Cooling	Condensation	Electricity	Process	Circuit	Dissolves	
Object	Felt	Opaque	Freezing/freezing point	Evaporation	Flexible	Rate	Condensatio	Evaporation	
Texture	Waterproof	Absorbent	Frozen	Particles	Gas	Solid	n	Magnetic	
Appearance	Stiff	Translucent	Gas	Precipitation	Liquid	Solution	Conductor	Particles	
Glass	Flexible	Properties	Heating	Vibrations	Melting	State	Filtering	Permeable	
Metal	Soft	Recyclable	Liquid	Water cycle		Temperature	Insoluble	Properties	



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Plastic	Shiny		Melting/melting point	Water vapour		Insulator	Resistance
Rock	Rough		Process	Condenses		Irreversible	Reversible
Elastic	Bright		Solid			Soluble	Transparent
Paper	Bendy		Properties			Thermal	Variable
Wood	Stretchy/ing		Temperature				Water cycle
Water	Hard						
Natural	Smooth						
Nature	Bumpy						
Man-made	Dull						
Produced	Chalk						
Coal	Sand						
Concrete	Oil						
Rubber	Cotton						
Steel	Leather						
Plastic	Iron						
Polyester	Gold						
Weaving	Brick						
Soaks	Created						
Curved	Original						
Substance	Foil						
Purpose	Suitable						
Process	Suitability						
Squashing							
Bending							
Twisting							

**National Curriculum Unit**  
**Light and Sound (Physics) – Years 3, 4 and 6**

KS1	LKS2				UKS2			
	Tier 2		Tier 3		Tier 2		Tier 3	
	Angle	Source	Chemical	Amplitude	Reflection	Electricity	Opaque	Periscope
	Bright	Product	reaction	Decibel	Source	Angle	Emits	Cornea
	Dark	Medium	Emits	Frequency	Dark	Dim	Translucent	Iris
	Dim	Power	Opaque	Pitch	Shadow	Surface	Transparent	Optic nerve
	Electricity	Transmit	Translucent	Sound	Rays	Measure	Spectrum	Pitch
	Reflects	Volume	Transparent	waves	Travel	Distance	Infrared	Amplify
	Shadow		Vibrations		Visible	Invisible	Ultraviolet	Ear canal
	Energy				Volume		Cochlea	Ossicles



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						Auditory nerve	Anvil Hammer Stirrup	
<b>National Curriculum Unit Electricity (Physics) – Years 4 and 6</b>								
<b>KS1</b>	<b>LKS2</b>				<b>UKS2</b>			
	Tier 2		Tier 3		Tier 2		Tier 3	
	Appliance/s Battery Bulb Energy Fuel Generate Switch Wires	Buzzer Device Electricity Motor Power Source	Cell Circuit Component Conductor	Current Insulator Mains Renewable Fossil fuels	Electricity Energy Devices Force Bulb Buzzer Power Wires	Source Appliance/s Switch Battery Motor Fuel Generate Socket	Component Conductor Insulator Cell Resistor Mains Break	Circuit Series circuit Resistance Ammeter Voltage Current
<b>National Curriculum Unit Forces (Physics) – Years 3 and 5</b>								
<b>KS1</b>	<b>LKS2</b>				<b>UKS2</b>			
	Tier 2		Tier 3		Tier 2		Tier 3	
	Bendy Stretchy Twist Surface Force Opposite Position Push	Magnet Motion Pull	Friction Gravity Magnetic/non-magnetic Magnetic field Attract Repel Resistance Poles Metallic		Attract Force Gear Motion Opposite	Pulley Spring Streamlined Surface Mass	Friction Gravity Repel Resistance Lever Poles Mechanisms Rotary/Linea	Thrust Newton meter Fulcrum force Pivot Torque Axis



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**National Curriculum Units**  
**Seasons Changes, Rocks, Earth and Space, Evolution and Inheritance (Earth Science) – Years 1, 3, 5 and 6**

KS1		LKS2				UKS2					
Tier 2		Tier 3		Tier 2		Tier 3		Tier 2		Tier 3	
Months	Summer	Deciduous		Absorb	Preserve	Bedrock	Magma	Planet	Star	Asteroid	Galaxy
Year	Autumn	Evergreen		Grain	Pressure	Decaying	Metamorphic	Shadow	Time zones	Axis	Gravity
Length	Winter	Hibernate		Imprint	Properties	Igneous	Mineral	Sphere/sphe	Universe	Comet	Leap year
Weather	Daylight	Migrate		Natural	Rock	Leaf litter	Molten	rical	Solar system	Solar eclipse	Meteorite
Seasons	Nature	Climate		Man-made	Soil	Palaeontolog	Nutrients	Spin	Survival	Offspring	Orbit
Spring	Conkers	Blossom		Surrounding	Surface	y	Sediment	Rotation	Environment	Breed/ing	Biodiversity
Temperature				Volcano		Permeable		Rotate	/al	Reproductio	Biomes
				Weathered		Porous/non-		Seasons	Survive	n	Palaeontolog
						porous		Orientation	Generations	Evolution	y
						Prehistoric		Evolve	Characteristi	Natural	Fossils
								Theory	cs	selection	Species
								Phases	Earth	Inherited	Inheritance
								Quarter	Satellite	Adaptation	Mutation
								Atmosphere	Collision	Ancestor	Maladaptatio
									Exploration	Extinct	n
										Milky way	Variation
										Mercury	Dwarf planet
										Venus	Terrestrial
										Mars	Northern
										Jupiter	Lights
										Saturn	Aurora
										Neptune	Crater
										Uranus	Hemisphere
										Pluto	Lunar cycle
										Rover	Waxing
										Probe	Waning
										Astronaut	Crescent
										Geocentric	Gibbous
										Heliocentric	Shooting
										Orrery	star