## Richard Avenue Primary School

## Long Term Plan – Science

	AUTUMN		<b>SPRING</b>	SUMMER	
Nur	Knowledge & Understanding of the World Topic- All about me Topic- Toys		Knowledge & Understanding of the World World Topic- Transport/Healthy Living Topic- Minibeast		Ü
Rec	Knowledge & Understanding of the World Topic- All about me Topic Toys		Knowledge & Understanding of the World Topic- Transport/Healthy Living Topic- Growing/Food The world- Growth, Decay and changes over time	Knowledge & Understanding of the World Topic- Minibeasts/Water Topic- Animals/People Who Help Us	
Year 1	Chemistry Everyday Materials Objects/material s ID and name Describe properties Compare/group	Physics Seasonal change (Taught across the year in line with seasons) Observe changes across seasons Observe and describe weather/how day length varies	Biology Animals, including humans ID and name animals ID carn/omni/herb Describe and compare structure ID parts of the body/senses	Biology Plants ID name plants Basic structure of plants	
Year 2	Chemistry Uses of Everyday materials Suitability of materials for jobs Changing shapes of objects		Biology Animals including humans Animal offspring Basic needs Importance of exercise, balanced diet and hygiene	Biology Living things and Habitats Living/Dead/Aliv e What are habitats How they provide basic needs ID name animals/ plants in diff habitats Basic food chains. Animals eat	Biology Plants Seeds into plants Needs of plants to stay healthy.
Year 3	Physics Light and shadow Need light to see Light is reflected Dangers of the sun Shadow formation Changing shadow size	Chemistry Rocks and soil Grouping- appearance and properties Fossils soil	Biology Animals including humans Skeletons and muscles Types of nutrition	Biology Plants Functions of parts of plants Requirements for life Water transport Flowers- pollination, seeds, dispersal	Physics Forces and magnets Moving objects on surfaces Contact/ distance forces Magnets attract/ repel poles Grouping materials magnetic/not magnetic

Year 4	Physics Electricity Appliances Simple circuits	Chemistry States of matter Group- SLG	Physics Sound Making sounds (vibrations)	Biology Animals, including humans	Biology Science- Living thi habitats Grouping living thir	
	and components Will the bulb light Switches Conductors/ insulators	Particle Changes of state Water cycle- evapo/cond	Sounds travelling in medium Patterns in pitch Patterns in volume Sounds get fainter/ distance	Function of digestive system Types of teeth/roles Food chains, producers, prey/predator	Grouping living things (animals/plants) Vertebrate/Invertebrate Classification keys Changing environments / dangers	
Year 5	Biology Living things and their habitats Life cycles— mammal, bird, insect, amphibian Life processes of reproduction— plants/animals	Biology Animals, including humans Changes as humans develop to old age(life cycle) Puberty	Physics Earth and Space Movement of earth/ planets Movement of moon Describe sun/moon Explain day/night seasons	Chemistry Changes of materials Properties and changes of materials Compare/group Dissolving, separating mixtures Testing materials- properties/uses Reversible/non reversible changes	Physics Forces and Mechal Gravity/ falling Air/ &friction Levers, pumultipliers)	
Year 6	Biology Living things and their Habitats Classifying living things into broad groups Classifying plants and animals Keys	Physics Light Light travels in straight lines How we see Reflecting light Explain shadow	Physics Electricity Brightness of bulbs vs cells/voltage Explain brightness, loudness of buzzers Use circuit symbols Application of knowledge— traffic lights/ burglar alarm	Biology Animals including Humans- Heart and circulatory system Diet/exercise/ drugs Nutrients/water transport	Biology Evolution and Inho Living through char Evidence of fossils Offspring vary Adaptation leading	nge over time

Date:2023