	SCIENCE CURRICULUM MAP					
	Autumn Term	Spring Term	Summer Term			
ΥI	All About Me Biology: My Body & Senses Identify name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Working Scientifically: Ask simple questions. Observe closely, using simple equipment. Perform simple tests. Use observations and ideas to suggest answers to questions.	Castles Chemistry: Everyday Materials Distinguish between an object and the material from which it is made. 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 materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties. Working Scientifically: Ask simple questions. Observe closely, using simple equipment. Identify and classify. Use observations and ideas to suggest answers to questions.	On Our Field Biology: Identifying Animals & Plants Identify and name a variety of common animals that are birds, fish, amphibians, reptiles, mammals and invertebrates. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of different common animals (birds, fish, amphibians, reptiles, mammals, invertebrat Identify and name a variety of common plants, including garder plants, wild plants, trees and deciduous and evergreen plants. Identify and describe the basic structure of a variety of common flowering plants, including roots, stem/trunk, leaves and flower Physics: Seasonal Changes Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies. Working Scientifically: Ask simple questions. Observe closely, using simple equipment. Perform simple tests. Identify and classify. Use observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.			
Y2	London Chemistry: Materials Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Identify and compare the uses of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard. Working Scientifically: Ask simple questions. Observe closely, using simple equipment. Perform simple tests. Identify and classify. Use observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.	The Arctic Biology: Living Things & Their Habitats 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 micro-habitats. 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. Working Scientifically: Ask simple questions. Identify and classify. Use observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.	Living & Growing Biology: Growing Plants Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suita temperature to grow and stay healthy. Biology: Growth & Survival Explore and compare the differences between things that are living, that are dead and that have never been alive. Notice that animals, including humans, have offspring which grinto adults. Investigate and describe the basic needs of animals, including humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the riamounts of different types of food and hygiene. Working Scientifically: Ask simple questions. Observe closely, using simple equipment. Perform simple tests. Identify and classify. Use observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.			

	SCIENCE CURRICULUM MAP						
	Autumn Term	Spring Term	Summer Term				
Y3	Under the Ground	Rainforests	Ancient Egypt				
	Chemistry: Rocks & Fossils	Biology: Plants	Physics: Forces & Magnets				
	Compare and group together different kinds of rocks on the basis of	Identify and describe the functions of different parts of flowering	Compare how things move on different surfaces.				
	their simple, physical properties.	plants: roots, stem, leaves and flowers.	Notice that some forces need contact between two objects and				
	Relate the simple physical properties of some rocks to their formation (igneous or sedimentary).	Explore the requirements of plants for life and growth (air, light,	some forces act at a distance. Observe how magnets attract or repel each other and attract some				
	Describe in simple terms how fossils are formed when things that	water, nutrients from soil, and room to grow) and how they vary	materials and not others.				
	have lived are trapped within sedimentary rock.	from plant to plant.	Compare and group together materials depending on whether they				
	Use scientific evidence to answer questions or to support findings.	Investigate the way in which water is transported within plants. Explore the role of flowers in the life cycle of flowering plants,	are attracted to a magnet and identify magnetic materials.				
	Biology: Health & Movement	including pollination, seed formation and seed dispersal.	Describe magnets as having two poles.				
	Identify that animals, including humans, need the right types and	Working Scientifically:	Predict whether two magnets will attract or repel each other.				
	amounts of nutrition, that they cannot make their own food and that	Ask relevant questions.	Physics: Light				
	they get nutrition from what they eat.	Gather, record, classify and present data in a variety of ways to	Understand we need light to see and dark is the absence of light.				
	Identify that humans and some animals have skeletons and muscles for support, protection and movement.	help in answering questions.	Notice that light is reflected from surfaces. Know light from the sun is dangerous and ways to protect eyes.				
	Working Scientifically:	Record findings using simple scientific language, drawings, labelled	Associate shadows with a light source being blocked by something;				
	Ask relevant questions.	diagrams, bar charts and tables.	find patterns that determine the size of shadows.				
	Set up simple practical enquiries and comparative and fair tests.	Report on findings from enquiries, including oral and written	Working Scientifically:				
	Record findings using simple scientific language, drawings, labelled	explanations, displays or presentations of results and	Ask relevant questions.				
	diagrams, bar charts and tables.	conclusions.	Carry out simple practical enquiries and comparative, fair tests.				
	Use results to draw conclusions and suggest new predictions.	Identify differences, similarities or changes related to simple,	Make accurate measurements using standard units, using a range of				
	Use scientific evidence to answer questions or support findings. Identify differences, similarities or changes related to simple,	scientific ideas and processes.	equipment, e.g. thermometers and data loggers. Use scientific evidence to answer questions or support findings.				
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	SCIENCE CURRICULUM MAP						
	Autumn Term	Spring Term	Summer Term				
Y 5	Ancient Greece	Earth & Space	The Vikings				
	Chemistry: Materials Compare and group together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, conductivity, and response to magnets. Understand some materials will dissolve in liquid to form a solution and how to recover a substance from a solution. Use knowledge of solids, liquids, gases to decide how mixtures might be separated, including filtering, sieving and evaporating. Give reasons, based on evidence from comparative and fair tests, for uses of materials, including metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible. Explain that some changes result in the formation of new materials, and this is not usually reversible, including changes due to burning, oxidisation and action of acid on bicarbonate of soda. Working Scientifically: Plan enquiries, recognising and controlling variables as necessary. Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work. Take accurate measurements using a range of equipment. Record data and results of increasing complexity using scientific diagrams and labels, tables, graphs, and models.	Physics: Earth & Space Describe the movement of the Earth and planets, relative to the Sun. Describe the movement of the Moon relative to the Earth. Describe Sun, Earth, Moon as approximately spherical bodies. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. Science: Forces in Action Explain that objects fall towards the Earth due to the force of gravity acting between the Earth and the falling object. Identify the effect of drag forces, such as air resistance, water resistance and friction that act between moving surfaces. Describe, in terms of drag forces, why moving objects that are not driven tend to slow down. Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs. Working Scientifically: Record data and results of increasing complexity using diagrams and labels, tables, graphs, and models. Report findings, including oral and written explanations of results, explanations involving causal relationships, and conclusions. Use simple models to describe ideas, identifying scientific evidence used to support or refute ideas or arguments. Plan enquiries, recognising and controlling variables as needed. Use appropriate techniques, apparatus, and materials.	Biology: Life Cycles Describe the life cycles common to a variety of animals, including humans (birth, growth, development, reproduction, death), and to a variety of plants (growth, reproduction and death). Describe the process of reproduction in some plants & animals. Describe the changes as humans develop from birth to old age. Biology: Healthy Bodies Identify and name the main parts of the human circulatory system, and explain the functions of the heart, blood vessels and blood (including the pulse and clotting). Recognise the impact of diet, exercise, drugs and lifestyle on the way human bodies function. Describe the ways in which nutrients and water are transported within animals, including humans. Working Scientifically: Take accurate measurements using a range of scientific equipment. Record data and results of increasing complexity using scientific diagrams, tables, bar and line graphs, and models. Report findings from enquiries, including oral and written explanations involving causal relationships, and conclusions. Present findings in writing, displays and other presentations.				
	Use results to make predictions for comparative and fair tests.	Use results to make predictions and set up comparative & fair tests.					
Υ6	The Kingdom of Benin Biology: Evolution & Inheritance Recognise living things have changed over time and fossils provide information about living things on Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. Describe how adaptation leads to evolution. Recognise how and why the human skeleton has changed over time, since we separated from other primates. Working Scientifically: Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, graphs and models. Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions. Present findings in writing, displays and other presentations. Use simple models to describe scientific ideas, identifying scientific evidence used to support or refute ideas or arguments.	Seeing Light Physics: Seeing Light Recognise that light appears to travel in straight lines. Use the idea that light travels in straight lines to explain objects are seen because they give out or reflect light into the eye. Explain we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. Physics: Changing Circuits Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols to represent a simple circuit in a diagram. Working Scientifically: Plan enquiries, recognising and controlling variables where necessary. Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work. Take measurements, using a range of scientific equipment, with increasing accuracy and precision. Record data and results of increasing complexity using scientific diagrams and labels, tables, bar and line graphs, and models. Present findings in writing, displays and other presentations. Use test results to make predictions to set up further tests.	Britain After WW2 Biology: Classifying Organisms Explain the classification of living things into broad groups according to observable characteristics and based on similarities and differences, including plants, animals and micro-organisms. Give reasons for classifying plants and animals based on specific characteristics. Working Scientifically: Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, graphs and models. Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions. Present findings in writing, displays and other presentations. Use simple models to describe scientific ideas, identifying scientific evidence used to support or refute ideas or arguments.				