Science Curriculum Map

EYFS

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science						
	Seasonal changes/Changing states of matter/ Senses	**Seasonal changes/Senses/Changing States of Matter**	**Seasonal changes/Materials**	**Seasonal changes/Living things and their habitats**	**Seasonal changes/Plants**	**Seasonal changes/Animals including humans**
	Explore the school grounds and local area and make observations about autumn. Use their senses to make bread and explore what happens when different substances are mixed.	Explore the school grounds and local area and make observations about winter.	Name and identify different materials around them. Use metal detectives to compare magnetic and nonmagnetic materials. Explore material durability/strength thorough investigating which material will withstand the wind; linked to Three Little Pigs story.	Explore the school grounds and local area and make observations of spring. Explore and name different species and observe chick hatching.	Explore the school grounds and local area and make observations of summer. Explore plant growth and grow their own potatoes. Harvest potatoes.	Visit Newark Farm, help groom and feed animals, Look at insects in detail using magnifying glasses and make observations.
Scientist Covered						

Year 1

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science						
	Seasonal Changes/ Animals including humans	***Comparing Materials***	***Seasonal changes/ Living things and their habitats***	***Living things and their habitats***	***Seasonal changes Plants***	***Plants***
	Observe changes over four seasons and describe the weather associated with it.	Distinguish between an object and material it is made from whilst classifying everyday materials based on their properties.	Research the work of George Mottershead and identify a variety of common animals.	Classify and name a variety of carnivores, herbivores, and omnivores.	Explore and name a variety of common wild and garden plants including deciduous and evergreen trees. Also using this information to plant their own.	Explore and describe the basic structure of variety of common flowering plants using scientific language.
Scientist Covered	George Mottershead					

Year 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science	**Uses of everyday materials**		**Animals including humans**	**Living things and their habitats**	**Plants**	
	Identify and compare suitability of everyday materials for particular uses. Explore the work of Charles Macintosh and use it to plan an investigation.	Find out how shapes of solid objects made from some materials can be changed.	Explore that animals including humans have offspring which grow into adults. Find out the basic needs of animals and including humans and the basic stages of a life cycle.	Explore and compare the difference between things that are living, dead and never alive. Describe how a food chain works.	Observe and describe how seed and bulbs grow into mature plants.	Find out and describe how plants need water, light, and warmth to grow and stay healthy.
Scientist Covered	Charles Macintosh					

Year 3

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Rocks	**Animals including humans**	**Forces and magnets**	**Light**	**Plants**	
	Explore the work of Mary Anning and classify different kinds of rocks based on their properties.	Explore the work of Marie Currie and identify animals and humans needs for the right type of nutrition. Know the importance of balanced diet.	Compare how things move on different surfaces, know how pulley works. Notice forces need contact and how magnets attract and repel.	Identify light sources and how light is reflected from different surfaces.	Identify and describe the function of different parts of flowering plant.	Explore the part of the flower lifecycle including seed formation, seed dispersal and pollination.
Scientist Covered	Mary Anning Marie Currie					

Year 4

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science						***How did the Egyptians water their crops?***
	Electricity	**Animals Including humans**	**Living things and their habitats**	**Sound**	**States of matter**	
	Identify common appliances that run on electricity and construct simple circuits. Recognise some common conductors and insulators.	Describe the simple functions of the digestive system. Identify the different types of teeth and their functions and learn about the work of Washington Sheffield.	Recognise living things can be classified in a variety of ways and begin to use dichotomous keys. Use dichotomous keys to classify variety of living things in the local and wider environment using the work of Libbie Hyman.	Know what happens to a sound as it travels from it source to our ears. Explore the correlation between pitch and the object producing the sound.	Classify materials based on whether they are solid, liquids, or gases. Observe what happens to materials when they are heated or cooled.	Identify the part played by evaporation and condensation in the water cycle.
Scientist Covered	Washington Sheffield Libbie Hyman					

Year 5

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science						
	Earth and Space	**Forces**	**Properties and changes of materials**	**Animals including humans**	**Living things and their habitats**	
	Describe the movement of the Earth and other planets relative to the sun in the solar system.	Identify the effects of air resistance, water resistance and friction, which act between moving surfaces. Use the work of Isaac Newton to explain how gravity works on objects.	Explore the materials and their properties and which will dissolve and to be able to explain how to recover a substance from a solution.	Explore the life cycles of different living things, know the process of reproduction in plants and in animals.	Describe the changes as humans develop to old age, describe the different animals mature at different rates and live to different ages.	Describe the changes that occur during puberty.
Scientist Covered	Isaac Newton					

Year 6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science						
	Animals including humans	**Electricity**	**Living things and their habitats**	**Evolution and Inheritance**		**Light**
	Identify and name the main parts of the human circulatory system and describe the functions of specific organs. Explore the work of Marie Maynard Daly.	Compare and give reasons in how components function and alter the brightness or loudness in a circuit. Explore the work of Thomas Eddison.	Classify living things into broad groups according to observable characteristics based on the work by Charles Linnaeus.	Classify living things based on the work of Charles Darwin. Give reasons for classifying plants and animals based on specific characteristics.		Recognise light travels in straight lines and use this information to explain objects are seen when light reflects off them.
Scientist Covered	Charles Linnaeus Charles Darwin Thomas Eddison Marie Maynard Daly					