Subject: Science

Theale CE Primary School Subject Overview Planning

Year	Term	Topic **Working scientifically will be taught throughout each topic through the year**
FS	Autumn	**Humans and other animals** – recognising different types of animal **Seasons** – changes within the seasons
	Spring	**Materials** – leaning names and materials
	Summer	**Plants** – exploring plants in the local environment
Year 1	Autumn	**Animals including humans** - identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals; identify carnivores, herbivores and omnivores; describe and compare the structure of a variety of common animals; identify, name, draw and label the basic parts of the human body **Seasonal changes** – observe changes across the seasons and the associated weather
	Spring	**Everyday materials** – distinguish between objects and materials; learning names and some properties; group and compare materials
	Summer	**Plants** – growing sunflowers: what do they need to grow? Looking at the basic parts of plants; what do they need to grow healthily
Year 2	Autumn	**Living things and their habitat** – what makes something living? What makes a good habitat? What grows there? How do animals get their food? **Using electricity** – constructing circuits and learning about electrical safety.

	Spring	***Uses of everyday materials*** *– investigating the suitability of materials for particular uses; changing the shape of materials* ***Animals including humans*** *– life cycles, growth and reproduction; what do animals need to survive? The importance of exercise, healthy diets and hygiene for humans*
	Summer	***Plants*** *-- investigating their growth under different conditions. Exploring seeds. What are suitable conditions for plants to grow in?*
Year 3	*Autumn*	***Animals including humans*** *– the right types and amounts of nutrition; the functions of skeletons and muscles* ***Light and shadows*** *– we need light to see; discussing what creates light, and defining the absence of light; how shadows are formed and how they change; investigating opaque materials*
	Spring	***Rocks*** *– different types of rock and their properties; how fossils are formed; composition of soil* ***Forces and magnets*** *– what causes force? Understanding friction and magnetism.*
	Summer	***Plants*** *– structure of plants and the function of each part; what is needed for healthy growth; transportation of water; their life cycle.*
Year 4	*Autumn*	***Animals including humans*** *– digestive system including teeth and their function; food chains* ***Sound*** *– identify how sounds are made; recognising that vibrations of sound travel from source to ear.*
	Spring	***States of matter*** *– investigate solids, liquids and gases and changing states; the part played by evaporations and condensation in the water cycle.* ***Living things and their habitat*** *– classification, understanding the changes within environments and their effects on living things*
	Summer	***Electricity*** *– identifying objects that use electricity; make simple circuits; recognise common conductors and insulators; explore switches, conductors and insulators.*

Year 5	*Autumn*	***Animals including humans*** *– circulatory system; impact of diet, exercise and drugs; nutrients and how nutrients and water are transported within animals, including humans* ***Earth and Space*** *– movement; the earth, sun and moon as spherical; explanation of day and night and why the sun appears to move across the sky.*
	Spring	***Properties and changes of materials*** *- properties, solutions; separation of mixtures; reversible and irreversible changes* ***Forces*** *– gravity and its effect; identify the effects of air and water resistance and friction; investigate mechanisms*
	Summer	***Living things and their habitats*** *– describing the differences in life cycles of mammals, amphibians, insects and birds; the process of reproduction in some plants and animals*
Year 6	*Autumn*	***Living things and their habitats*** *– classification and adaptation*
	Spring	***Light*** *– movement of light; explaining shadows.* ***Electricity*** *– voltage; variation in component function; symbols.*
	Summer	***Evolution and inheritance*** *– recognise changes over time; adaptation; changes in offspring.* ***Animals including humans*** *– describe the changes as humans develop to old age (sex education).*