



#### **UPDATED AUTUMN - G REMEDIOS**

KS2 TOPICS ARE TAUGHT ACROSS TERMS AS 5 EQUAL UNITS





Autumn  important processes and changes in the natural world around them, including the seasons and changing states of matter  Talk about what they see, using a wide vocabulary  Explore the natural world around them, making observations and drawing pictures of animals and plants.  Winter/Spring  important processes and changes in the natural world around them, including the seasons and changing states of matter  Talk about what they see, using a wide vocabulary  Explore the natural world around them, making observations and drawing pictures of animals and plants.  Winter/Spring  important processes and changes in the natural world around them, including the seasons and changing states of matter  Talk about what they see, using a wide vocabulary  Explore the natural world around them, making observations and drawing pictures of animals and plants.	UTW	ADVENT	END POINT	LENT	END POINT	PENTECOST	END POINT
humans- Senses/My body  Ose all their senses in hands-on exploration of natural materials.  Animals including humans – Comparing environments  Living things and their habitats –  them and comparing environments, them and comparing them and comparing environments, them and comparing them and comparing them are comparing to the natural world them and comparing them are comparing to the natural world them and comparing them are comparing to the natural world them and comparing them are comparing to the natural world the natur		Seasonal changes – Autumn  Animals including	Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter  Talk about what they see, using a wide vocabulary  Explore the natural world around them, making observations and drawing pictures of animals and plants.  Use all their senses in hands-on exploration of	Seasonal changes –	Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter  Talk about what they see, using a wide vocabulary  Explore the natural world around them, making observations and drawing pictures of	Seasonal changes – Summer  Animals including humans – Comparing environments Living things and their habitats –	END POINT  Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter  Talk about what they see, using a wide vocabulary  Explore the natural world around them, making observations and drawing pictures of animals and plants.  Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and





	ADVENT 1	END POINTS	ADVENT 2	END POINTS
YEAR 1	Seasonal changes – Autumn	Observe changes across the four seasons  Observe and describe weather associated with the seasons and how day length varies	Seasonal changes – Winter	Observe changes across the four seasons  Observe and describe weather associated with the seasons and how day length varies
	Animals including humans- Senses/My body	Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	Animals including humans	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals  Identify and name a variety of common animals that are carnivores, herbivores and omnivores  Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)
	LENT 1	END POINTS	LENT 2	END POINTS
YEAR 1	Seasonal changes – Winter	Observe changes across the four seasons  Observe and describe weather associated with the seasons and how day length varies	Seasonal changes – Spring	Observe changes across the four seasons  Observe and describe weather associated with the seasons and how day length varies
	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	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

	PENTECOST 1	END POINTS	PENTECOST 2	END POINTS
YEAR 1			Seasonal changes – Summer	Observe changes across the four seasons
				Observe and describe weather associated with the seasons and how day length varies
	Plants	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	Plants	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees
		Identify and describe the basic structure of a variety of common flowering plants, including trees		Identify and describe the basic structure of a variety of common flowering plants, including trees





	ADVENT 1+	END POINTS	ADVENT 2+	END POINTS
YEAR 2	Living things and their habitats	Explore and compare the differences between things that are living, dead, and things that have never been alive  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	Uses of everyday materials	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses  Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching

	LENT 1 & 2	END POINTS
YEAR 2	Animals including humans	Notice that animals, including humans, have offspring which grow into adults
		Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)
	PENTECOST 1 & 2	END POINTS
YEAR 2	Plants- requirements for healthy growth	Observe and describe how seeds and bulbs grow into mature plants
	-growing seeds and bulbs	Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy
	Living things and their habitats	Identify and name a variety of plants and animals in their habitats, including micro-habitats
	-local habitat in summer	







	ADVENT 1	END POINTS	ADVENT 2	END POINTS
YEAR 3	Animals including humans -skeletal system and muscles, nutrition	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat  Identify that humans and some other animals have skeletons and muscles for support, protection and movement	Light – to see things shadow patterns danger of sunlight	Recognise that they need light in order to see things and that dark is the absence of light  Notice that light is reflected from surfaces  Recognise that light from the sun can be dangerous and that there are ways to protect their eyes  Recognise that shadows are formed when the
	Plants –seed dispersal	Explore seed dispersal in the life cycle of flowering plants		light from a light source is blocked by an opaque object find patterns in the way that the size of shadows changes

	LENT 1 + 2	END POINTS	LENT 2 + PENT 1	END POINTS
YEAR 3	Rocks – comparing different rocks, how fossils are formed	Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties  Describe in simple terms how fossils are formed when things that have lived are trapped within rock  Recognise that soils are made from rocks and organic matter	Forces - contact forces on surfaces and magnetic forces of attraction or repulsion	Compare how things move on different surfaces Notice that some forces need contact between two objects, but magnetic forces can act at a distance  Observe how magnets attract or repel each other and attract some materials and not others  Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet and identify some magnetic materials  Describe magnets as having two poles

		Predict whether two magnets will attract or
		repel each other, depending on which poles
		are facing

	PENTECOST 1 & 2	END POINTS
YEAR 3	Plants – function and requirements for growth of flowering plants, pollination	, Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
	(Seed dispersal in Autumn)	Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
		Investigate the way in which water is transported within plants





ADVENT 1 END POINTS ADVENT 2	END POINTS
YEAR 4  State of matter - changes of state- condensation and evaporation in the water cycle  Compare and group materials together, according to whether they are solids, liquids or gases  Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius  (°C)  Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	

	LENT 1+2	END POINTS	LENT 2+	END POINTS
YEAR 4	Electricity -electrical appliances, conductors and insulators, building simple circuits	Identify common appliances that run on electricity  Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers  Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery  Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit  Recognise some common conductors and insulators, and associate metals with being good conductors	Animals including humans -digestive system food chains, teeth	Describe the simple functions of the basic parts of the digestive system in humans  Identify the different types of teeth in humans and their simple functions  Construct and interpret a variety of food chains, identifying producers, predators and prey
		PENTECOST 1 + 2		END POINTS
YEAR 4	Sound -how sound is made through vibration		Identify how sounds are	made, associating some of them with something vibrating

-investigating pitch and volume	Recognise that vibrations from sounds travel through a medium to the ear
	Find patterns between the pitch of a sound and features of the object that produced it
	Find patterns between the volume of a sound and the strength of the vibrations that produced it
	Recognise that sounds get fainter as the distance from the sound source increases





	ADVENT 1	END POINTS	ADVENT 2	END POINTS
YEAR 5	Earth and Space - the solar system -movement of the Moon relative to the Earth - day and night	Describe the movement of the Earth, and other planets, relative to the Sun in the solar system  Describe the movement of the Moon relative to the Earth  Describe the Sun, Earth and 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	Forces  - effect of gravity, friction, air and water resistance  - use of gears, pulleys and levers	Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object  Identify the effects of air resistance, water resistance and friction, that act between moving surfaces  Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect

	LENT 1 + 2	END POINTS	LENT 2 + PENT 1	END POINTS
YEAR 5	Living things and their habitats	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird	Animals including humans	Describe the changes as humans develop to old age
	- animal life cycles - reproduction of plants	Describe the life process of reproduction in some plants and animals	-growth and development of humans	

	PENTECOST 1 + 2	END POINTS
YEAR 5	Properties and changes of materials	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
	-grouping materials,	Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
	-separation of mixtures,	Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving
	-reversible and irreversible changes	and evaporating Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
		Demonstrate that dissolving, mixing and changes of state are reversible changes  Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible,
		including changes associated with burning and the action of acid on bicarbonate of soda





	ADVENT 1	END POINTS	ADVENT 2	END POINTS
YEAR 6	Light - sources, reflection and shadows	Recognise that light appears to travel in straight lines  Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye  Explain that 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	Electricity - comparing components in different 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 when representing a simple circuit in a diagram

	LENT 1 + 2	END POINTS	LENT 2 + PENT 1	END POINTS
YEAR 6	Animals including humans  - circulatory system  - effects of harmful substances	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood  Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function  Describe the ways in which nutrients and water are transported within animals, including humans	Living things and their habitats -classification	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals  Give reasons for classifying plants and animals based on specific characteristics

YEAR 6	PENTECOST 1 + 2	END POINTS

YEAR 6	<b>Evolution and Inheritance</b>	Recognise that living things have changed over time and that fossils provide
		information about living things that inhabited the Earth millions of years ago
	<ul> <li>- adaptation of plants and animals to suit their environment &amp; evolution over time.</li> <li>-fossils provide information about ancient life</li> </ul>	Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents  Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution