

Subject: **SCIENCE** 

Pupils engage with the curriculum through termly themes, narratives and memorable events. Subjects combine in our 3D curriculum which develops learning using horizontal, vertical and diagonal links.

	Year A						
	2024/5 2026/27						
	Lower KS2 (Years 3 and 4)			Upper KS2 (Years 5 and 6)			
Th. 2 :22 2	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	
Theme	Know light is	World War Two Recognise that we	Air resistance	Know about light and	Years of British Hi	Argon	
Autumn Term	important and some ways we use it/dangers of the sun brightness.  Know shadows form when light is blocked.  Introduction to forces and air resistance through parachute design	need light in order to see things and that dark is the absence of light.  Use opaque objects to create shadow. Investigate shadows and find patterns in how shadows change.  Design, build, use and evaluate a parachute designed to slow the rate of falling. Explain how the parachute is slowing the rate of descent.	Attract Blocked Danger Light Opaque Parachute Poles Reflect Repel Sun	light sources. Light travels in straight lines. Laser to demonstrate. Sizes of shadows. Reflection from objects. Extend to periscopes, parabolic reflectors in torches.  Extend into Inca fires. Extend into relative speeds sound and light. Review sound.  Know about materials in daily use due to their properties. More to follow in spring term.	moves in a light diagram and construct scientifically accurate representations of use of light. Explain shadows as the absence of light Record Lightbulb detail as an invention. Swann vs Edison. Consider rainbows, soap bubbles, shadow puppets and size. Inca fires practical Describe sound and how it travels. Air and water. Doppler effect.  Identify parts of a bike and why the materials were chosen based on properties. Think through machines — bicycles design errors to identify. Link materials to their uses based on properties.	Cheap Filament Flexible Focus High-friction Inert Laser Lens Light Opaque Parabolic Rigid Shadow Soft Strong Translucent Transparent	
Theme		Rainforests		Water around the World			
Spring Term	Introduce and identify basic plant parts. Know about water transportation and the lifecycle of flowering plants.  Know that solids, liquids and gases can be identified by different properties. Know that heating/cooling changes some materials.  Introduction to the water cycle (basic)	Describe what a plant needs to survive. Investigate and understand how water is transported in plants. 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) Associate rate of evaporation with temperature.	Air Condensation Evaporation Flowers Gas Leaves Light Liquid Nutrients Pollination Room/space Roots Seed dispersal Seed formation Solid Stem Trunk Water Water cycle	Dissolving and recovering  Know depth about solids, liquids and gases.  Know about reversible and irreversible changes  Extend with bacteria and hygiene linked to purifying water.  In depth water cycle.	Compare/group materials by properties.  Separate mixtures  Create bread experiment – using clear bags and different handprint surfaces. (weeks needed)  Design, build, test and evaluate apparatus to purify water.  Detailed explanation of water cycle using science terms correctly.	Conductor Evaporating Filtering Flexible Gases Hardness Insulator Irreversible Liquids Magnetic Precipitation Reversible Shiny Sieving Solids Soluble Solution Strong	

Thomas	7	bollondors of the	111/		In Living Adams on	
Theme		the Wonders of the		Doonan	In Living Memory	Pottom of cells
Summer	Know that sound is	Identify how sounds	Bulbs	Deepen understanding of	Describe	Battery of cells
Term	caused by vibration	are made, associate	Buzzers Cells	understanding of	reproduction in some	Carpel Cells
	and gets fainter as the distance from	with vibrating.	Conductor	reproduction in some	plants/animals	Circuit
	source increase.	Find patterns between the pitch of		plants and animals.	Dissect a flowering	Edible crab
	Know that	a sound and features	Energy Fading	Changes in Humans	plant – identify the	
	vibrations from	of the object that	Fainter	(Y6) forms part of RSE	parts and their	Eggs Exoskeleton
	sound travel	produced it	Insulator	yearly	functions correctly.	Fertilisation
	through the air	Find patterns	Pitch	yearry	Turicuons correctly.	Flow
	(water) to the ear.	between the volume	Switches	Classification:	Classify living things	Fulmer
	(water) to the ear.	of a sound and the	Vibration	Know about key	based on observable	Grey seal
	Electricity	strength of the	Volume	creatures/evidence	features. Extend into	Hermit crab
	introduction: know	vibrations that	Wires	that may be found on	Dichotomous	Mollusc
	common appliances	produced it.	WIIES	our beach walk.	identification keys.	Negative
	that use electricity.	Construct basic series		our beach wark.	identification keys.	Nutrients
	Know a switch	circuit		Know food chains can	Prepare beach	Ovary
	opens/closes a	Circuit		link into food webs	identification –	Oystercatcher
	circuit.	Predict whether a		IIIIK IIILO 1000 WEDS	pictures and notes.	Petals
	circuit.	circuit will work.		Electricity in depth:	pictures and notes.	Pollination
				Electricity in depth: know about circuit	Draw and avalain the	Positive
		Recognise common conductors/insulators.		construction and link	Draw and explain the flow of nutrients in	Seed dispersal
1		Associate metals with		number of cells to	food chains linking to	Seed dispersal
		good conductors.		brightness/loudness.	form food webs.	Series
		good conductors.		brightness/iouuness.	Torin rood webs.	Shore crab
					Build electrical	
					circuits and use	Style
					symbols in stylised	Style Vertebrate
					•	
					circuit diagrams.  Design and build a	Whelk eggs
					burglar alarm.	
					bulgial alaitii.	(Parallel circuit
						extension if
						appropriate)
			Vo	o D		
			re	ar B		
				аг в 2025/26		
Theme		erborough Through	2023/4 Time	2025/26	Ancient Technology	
Theme Autumn	Know the names	identify that animals,	2023/4 Time Canines	2025/26  Know about the Earth	Be able to describe	Axis
Autumn	Know the names and simple	identify that animals, including humans,	2023/4 Time Canines Carbohydrate	2025/26  Know about the Earth sun and moon, extend	Be able to describe forces using correct	Axis Crescent
	Know the names and simple functions of types	identify that animals, including humans, need the right types	2023/4 Time Canines Carbohydrate Dairy	Xnow about the Earth sun and moon, extend into seasons and	Be able to describe	Axis Crescent Equinox
Autumn	Know the names and simple	identify that animals, including humans, need the right types and amount of	2023/4 Time Canines Carbohydrate Dairy Fats	Xnow about the Earth sun and moon, extend into seasons and equinox/solstice and	Be able to describe forces using correct terminology.	Axis Crescent Equinox Geocentric
Autumn	Know the names and simple functions of types of teeth in humans.	identify that animals, including humans, need the right types and amount of nutrition, and that	2023/4 Time Canines Carbohydrate Dairy Fats Fruit	Xnow about the Earth sun and moon, extend into seasons and	Be able to describe forces using correct terminology.  Describe the shape	Axis Crescent Equinox Geocentric Gibbous
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy	identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make	Canines Carbohydrate Dairy Fats Fruit Health	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.	Be able to describe forces using correct terminology.  Describe the shape and movement of the	Axis Crescent Equinox Geocentric Gibbous Heliocentric
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what	identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they	2023/4 Time Canines Carbohydrate Dairy Fats Fruit Health Incisors	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you	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	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity,	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay	identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction,	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you	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.	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction, water resistance.	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar system. Day and	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay healthy.	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.  Describing wise	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition Protein	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction,	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon Orbit
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay healthy.  Know magnetic	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.  Describing wise choices about food	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition Protein Vegetable	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction, water resistance. Extend into up-thrust.	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar system. Day and night.	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon Orbit Pyramid
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay healthy.  Know magnetic force acts at a	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.  Describing wise choices about food with a reference to	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition Protein	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction, water resistance. Extend into up-thrust.  Know about	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar system. Day and night.  Be able to name the	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon Orbit Pyramid Satellite
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay healthy.  Know magnetic	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.  Describing wise choices about food with a reference to balanced diet and	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition Protein Vegetable	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction, water resistance. Extend into up-thrust.  Know about mechanical	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar system. Day and night.  Be able to name the planets in our solar	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon Orbit Pyramid Satellite Saturn
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay healthy.  Know magnetic force acts at a distance.	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.  Describing wise choices about food with a reference to	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition Protein Vegetable	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction, water resistance. Extend into up-thrust.  Know about mechanical advantage. Levers	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar system. Day and night.  Be able to name the	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon Orbit Pyramid Satellite Saturn Seasons
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Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay healthy.  Know magnetic force acts at a distance.  Know magnets have 2 poles  Know about different forces and how they act on	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.  Describing wise choices about food with a reference to balanced diet and health  Compare materials based on magnetic properties.  Predict whether magnets will attract or repel based on	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition Protein Vegetable	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction, water resistance. Extend into up-thrust.  Know about mechanical advantage. Levers and pullers. Gears on a bike.  How did the Ancient Egyptians move	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar system. Day and night.  Be able to name the planets in our solar system – Mnemonic  Investigate up-thrust and sails through practical work.  Investigate and describe ways that a smaller force can have a greater effect:	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon Orbit Pyramid Satellite Saturn Seasons Sledge Solstice Tides Tilt Toboggan Uranus Venus Waning
Autumn	Know the names and simple functions of types of teeth in humans.  Forming a healthy meal – what balance do you need to stay healthy.  Know magnetic force acts at a distance.  Know magnets have 2 poles  Know about different forces and how they act on	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.  Describing wise choices about food with a reference to balanced diet and health  Compare materials based on magnetic properties.  Predict whether magnets will attract or repel based on	Canines Carbohydrate Dairy Fats Fruit Health Incisors Minerals Molars Nutrition Protein Vegetable	Know about the Earth sun and moon, extend into seasons and equinox/solstice and polar winter.  Extend forces knowledge: gravity, air resistance, friction, water resistance. Extend into up-thrust.  Know about mechanical advantage. Levers and pullers. Gears on a bike.  How did the Ancient Egyptians move	Be able to describe forces using correct terminology.  Describe the shape and movement of the Earth, and other planets, relative to the Sun in the solar system. Day and night.  Be able to name the planets in our solar system – Mnemonic  Investigate up-thrust and sails through practical work.  Investigate and describe ways that a smaller force can have a greater effect: levers, pulleys and	Axis Crescent Equinox Geocentric Gibbous Heliocentric Jupiter Mars Mercury Moon Orbit Pyramid Satellite Saturn Seasons Sledge Solstice Tides Tilt Toboggan Uranus Venus Waning
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Theme		Natural Disasters	•	Pre	historic Peterborou	ugh
Spring Term	Basic introduction to fossil formation.  Know that soils are made from rocks and organic matter.  Introduction to Plate tectonics	Compare and group different kinds of rocks using their appearance and simple physical properties.  Build a model of the structure of the earth beneath our feet: crust, mantle, core, plates. Geography links.	Core Crust Hard Mantle Plates Rough Smooth Soft	How do we know something is living?  Know about variations in offspring and how this leads to adaptation over time through inheritance and survival.  Plant and animal adaptations. Skulls and teeth used for identification.  Extend into evolution	Using and applying MRS NERG to classify living things. Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago (In depth explanation of fossilisation linked to topic and geographical processes) Be able to explain Darwin and Wallace's ideas of evolution  Describe appropriate adaptations, e.g. great white shark, camel, nettle. Make	Adaptive camouflage Darwin Evolution Genetics Mouse Predator Prey Rodent Scapula Skull Vertebrae Vole Wallace
Theme Summer Term	School trip: Natural History Museum  Know about a range of habitats and groups animals by similar attributes.	Invaders and Settle  Be able to group creatures and plants based on observable differences and similarities.	Bolus Chew Excrete Intestines Intestines	School trip: Natural History and Science Museum  Spo Know about life cycle of human, frog, dragonfly and cuckoo. Changes in humans	logical deductions about skulls/teeth.  Dissection of owl pellets and mounting. Identification and delicate handling skills  rts and Healthy Live Describe life cycles and old age in humans.  Describe how	Arteries Capillaries Cardiac muscle Cocoon Contraction
	Know a skeletons basic functions and relate to yourself.  What are Organs?  Know the process of digestion and vocabulary. Is this the correct term?  Know the simple functions of basic parts of the digestive system  Know food chains follow the direction of nutrients.	Identify that humans and some other animals have skeletons and muscles for support, protection and movement.  Create skeletons with key features included.  Describe the function of key organs in the body. Relate practical experiment moving swallowed food to their own bodies.  Draw and explain simple food chains.	Oesophagus Peristalsis Saliva Stomach Swallow	(Y6) forms part of RSE yearly  Identify main parts of human circulatory system. Blood and functions.  Impact of Diet, exercise and drugs. (crossover to PSHCE)	nutrients and water are transported within animals.  Write an explanation text about the circulatory system.  Explain how training improves performance in athletes	Dual circulatory system Frog Froglet Heart Heartbeat Metamorphosis Tadpole Valves Veins