

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cycle A 2022/2023		Know that living things can be grouped in a variety of ways – Living things and their habitats	Know about the Sun, Earth, moon and the plants – Earth and Space	Know that some solids, liquids and gases change states – States of Matter. The Water cycle	Know about the life cycles of humans and various animals – Life cycle, including humans	Know exactly what happens to the food we eat – The Digestive system
		Scientific	Scientific	Scientific	Scientific	Scientific
		Knowledge	Knowledge	Knowledge	Knowledge	Knowledge
		Use classification keys to group, identify and name living things Know how changes to an environment could endanger living things Group materials based on their state of matter (solid, liquid or gas)	 Know about and explain the movement of the Earth and other planets relative to the Sun Know about and explain the movement of the Moon relative to the Earth Know and demonstrate how night and 	Know the temperature at which materials change state Know about and explore how some materials can change state Know the part played by evaporation and condensation in the water cycle Observation over time	Know the life cycle of different living things e.g. mammal, amphibian, insect and bird Know the differences between different life cycles Know the process of reproduction in plants Know the	 Identify and name the parts of the human digestive system Know the functions of the organs in the human digestive system Identify and know the different types
		Working	day are	• Measure	Know the process of	of human teeth
		Scientifically	created	temperatur	reproduction in	Know the
		Research	Describe the	e changes	animals	functions of
		Research the	Sun, Earth	in water	Create a	different
		effect of climate	and Moon	over time	timeline to	human teeth
		change on animals around	(using the term	Working Scientifically	indicate stages of growth in	Use and
		the world	spherical)	Research	humans	construct food
		Grouping	oprioriou)	Research	Working	chains to
		Classify plants/	Working	the water	Scientifically	identify
		animals into either	Scientifically	cycle and	Research	producers,



		producer, consumer or predator	Research Research the plants in our solar system, including length of orbit Pattern seeking Compare height with physical task e.g., distance a ball is thrown	how it works Grouping Identify solids, liquids or gases	Research changes in humans at different stages in our lives Research the life cycle of different animal groups Grouping Classify/ group and animal based on its group and species Pattern seeking Compare height with physical task e.g., distance a ball is thrown	predators and prey Working Scientifically Research • Research the different body parts involved in digestion Grouping and classifying • Classify plants/ animals into either producer, consumer or predator
Cycle B 2023/2024	Know what a force is and how it impacts on the way things move - Forces	Know what electricity is and why it so important in our lives - Electricity	Know how we get to hear things and how sound is created - Sound	Know why we can see and the part our eyes have in helping us see - Light		Know about the function of the heart and the importance of blood in keeping us alive – Circulatory System
	Scientific Knowledge	Scientific Knowledge	Scientific Knowledge	Scientific Knowledge		Scientific Knowledge



Know what	 Identify and 	Know how	 Know how light 	 Identify and
gravity is and	name	sound is made,	travels	name the main
its impact on	appliances that	associating	 Know and 	parts of the
our lives	require	some of them	demonstrate	human
Identify and	electricity to	with vibrating	how we see	circulatory
know the effect	function	Know how	objects	system
of air and water	 Construct a 	sound travels	Know why	 Know the
resistance	series circuit	from a source	shadows have	function of the
Identify and	 Identify and 	to our ears	the same	heart, blood
know the effect	name the	Know the	shape as the	vessels and
of friction	components in	correlation	object that	blood
Explain how	a series circuit	between pitch	casts them	 Know the
levers, pulleys	(including cells,	and the object	Know how	impact of diet,
and gears allow	wires, bulbs,	producing a	simple optical	exercise, drugs
a smaller force	switches and	sound	instruments	and lifestyle on
to have a	buzzers)	Know the	work e.g.	health
greater effect	Predict and test	correlation	periscope,	 Know the ways
Working	whether a lamp	between the	telescope,	in which
Scientifically	will light within	volume of a	binoculars,	nutrients and
Fair testing	a circuit	sound and the	mirror,	water are
Shape of an	Know the	strength of the	magnifying	transported in
object and the	function of a	vibrations that	glass etc.	animals,
time it takes to	switch	produced it	Working	including
travel through	 Know the 	Know what	Scientifically	humans
water	difference	happens to a	Grouping and	Working
Pattern seeking	between a	sound as it	Classifying	Scientifically
Surface	conductor and	travels away	• Group	Fair testing
material on	an insulator;	from its source	materials	Impact of
a ramp and	giving	Working	based on	exercise on
the	examples of	Scientifically	transparen	the heart
distance/	each	Fair testing	су	rate
speed it	Working	The affect	Pattern seeking	Research
travels	Scientifically	of distance	Compare	Research
	Fair testing	from the	distance	how drugs
	Determine	source on	from light	affect the
	which	volume	source and	body
	materials	Pattern seeking	shadow	Pattern seeking
	are	Compare		Compare
	electrical	how length		resting



	Groupii classify •	ng and /ing Classify/ group materials into electrical conductors or insulators	pes pitch		heart rate of different people
Cycle C 2024/2025	electric		gs materials that ca and or cannot be changed back to their original for gs, once an action	have changed over time –	
		Compare and give reasons for why component s work and do not work Class living into b group according to observe the component of the component of the component observe the co	things group material based on the based on the properties (e. ding hardness, solubility, transparency conductivity, and [electrical & thermal], and	Earth and living things have changed over time Know how fossils can be used to find out about the past	

correct	and	Know and	(recognising
symbols	differences	explain how a	that offspring
Know how	 Know how 	material	normally vary
the number	living things	dissolves to	and are not
and voltage	have been	form a solution	identical to their
of cells in a	classified	Know and show	parents)
circuit links	Give	how to recover	Know how
to the	reasons for	a substance	animals and
brightness	classifying	from a solution	plants are
of a lamp	plants and	 Know and 	adapted to suit
or the	animals in	demonstrate	their
volume of a	a specific	how some	environment
buzzer	way	materials can	Link adaptation
Working	Working	be separated	over time to
Scientifically	Scientifically	(e.g. through	evolution
Fair testing	Observation over	filtering, sieving	Know about
 Effect of 	time	and	evolution and
increasing	 Conditions 	evaporating)	can explain
voltage on	needed for	 Know and 	what it is
the	bread to go	demonstrate	Working
brightness	mouldy	that some	Scientifically
of a bulb	Research	changes are	Research
Pattern seeking	 Research 	reversible and	Research
 Compare 	the different	some are not	Charles
brightness	types of	Know how	Darwin and
of bulb in	micro-	some changes	his work
series and	organisms	result in the	Pattern seeking
parallel	Pattern seeking	formation of a	Compare
circuits	 Compare 	new material	sculls/ body
	resting	and that this is	parts of
	heart rate	usually	animals as
	of different	irreversible	they have
	people	Working	evolved
		Scientifically	
		Fair testing	
		 Factors that 	
		affect the	
		speed a	
		solute	



	dissolves in water, e.g., temperatur e Observation over time Observe over time the separation of a solute and solvent via evaporation Grouping Classify/ group materials as either soluble or	
	as either soluble or insoluble	