3Q1/2/3 - Quest Curriculum – Science 4 Lessons Weekly

To access SoW click the hyperlink for each topic 2024 - 2025 2024 - 2025 2024 - 2025 2024 - 20252024 - 20252024 - 2025Autumn 1 Autumn 2 Spring 1 Spring 2 Summer 1 Summer 2 Year Topic: Topic: **Topic: Topic: Topic: Topic:** C Changing, P Light B Keeping Healthy B Life Cycle Growth, C Acids and alkalis (E) Intro to lab C Exploring senses. P Electricity (D) P Forces (D) (E) (D) B Body parts and senses (E) Suggested Key Suggested Key Suggested Key Suggested Key Suggested Key Suggested Key **Questions: Questions:** Questions: Questions: **Questions: Questions:** What are acids and What are the Why do we have How can we stav How do materials What are the stages alkalis? common scientific senses? healthv? change? of the human life What is electricity What are some cvcle? equipment? What are forces? How do we work and why is it sources of light? safely in the lab? needed? How do we sense the world around us? Key Skills and Kev Skills and Kev Skills and Kev Skills and Kev Skills and **Kev Skills and** Knowledge: Knowledge: Knowledge: Knowledge: Knowledge: **Knowledge:** C Acids and alkalis Intro to Lab C Exploring senses **B** Keeping healthy C Changing **B Life Cycle Growth** • To be aware that Pupils to know the • To experience a To know about the • To experience. To encounter different many everyday Laboratory rules range of properties importance of food using all the stages in human life chemicals and foods and to start abiding of everyday objects and water to senses, a variety cycle. contain acids by them. using all senses. humans. of materials for • To indicate some To understand that squishiness. Pupils to see. To be able to To be able to awareness of different acids can burn you handle and name identify some distinguish between bendiness. stages in human life and can be some of the similarities between healthy and less twistability and cycle e.g. simple roledangerous materials. healthy foods. stretchiness. commonly used play – pretend to cry To know that we must science apparatus. • To be able to To be able to To be able to when shown picture of wear goggles when • Pupils to practise identify some recognise the need explore a range of baby. using acids changes when drawing science differences for a variety of • To be able to name 3 To recognise materials are apparatus correctly. foods and between materials. common hazard heated, cooled or exercises. Pupils to practise • To begin to develop different stages in symbols associated turning a Bunsen the skill of • To be able to plan a made wet. human life cycle. with acids To begin to burner off and on observing. healthy meal. • To begin to develop correctly, and comment on, and the skill of discussing.

Curriculum intent (overview) – To deepen students' skills and knowledge through a broad and balanced curriculum which prepares students for adulthood.

changing the type of	P Electricity	 To be able to 	record simply, their		To observe the effect
flame.	 To know that 	differentiate	observations.	P Forces	of acids on
Pupils to be able to	electricity can be	between different		 To experience a range 	bicarbonate of soda
use a microscope,	dangerous.	kinds of exercise.	P Light	of pushes and pulls	 To use litmus paper
thermometer and	• To know that	 To know that food 	 To experience light 	•To be able to	as a more
measuring	electricity can	is needed for	and dark.		sophisticated method
equipment correctly.	produce light, heat.	growth, health and	 To be able to 		of detecting an acid
, ,	sound, movement.	activity.	select light sources	or pushes and pulls.	• To use the term
B Body parts and	• To be able to	 To be able to group 	e.g. torch. candle.	 I o be able to 	"indicator" when
senses	connect given circuit	foods simply e.g.	from tray of mixed	describe, using some	describing an acid
 To be able to name 	components to light	fillers.	objects.	scientific vocabulary, a	• To recall that the
the external parts of	the bulb/make the	fruit/vegetables.	 To be able to 	range of pushes and	opposite to an acid is
the body.	buzzer sound.	dairv. meat/fish.	describe or	pulls.	an alkali
To associate parts		fatty etc.	indicate features of	To begin to develop the	 To understand that a
of the body with		 To know that food 	night-time	skill of planning.	substance that is
particular functions.		is vital for energy.	• To be able to		neither acidic nor
 To be able to 		growth and health.	name some	Key Skills:	alkaline is called
suggest what is		 To be able to test 	sources of light.	Begin to recognise	neutral
inside the body.		for starch and fat.	To explore some	that questions can be	 To know that tap
To be able to		 To be able to group 	aspects of	answered in different	water is (more or
explore the 5 senses		foods according to	shadows.	ways.	less) neutral
practically.		carbohydrate,			 To know that we can
 To know which 		protein, fat,	Key Skills:	To observe simple	make an acid neutral
organs are		vitamins and	Ask simple questions	changes over time	if we add an alkali
associated with		minerals.	about the world	and, with guidance,	 To understand that
which sense.		 To be able to 	around us.	begin to notice	we can use
 To know the 		describe the		patterns and	neutralisation to treat
importance of		process of	Use simple	relationships.	bee stings wasp
senses in survival.	Key Skills:	digestion	observations and		stings and
	Identify and classify	 To be able to label 	ideas to suggest	Perform simple tests	indigestion.
Key Skills:	with some support.	the main parts of	answers to questions.	with support. To	
Begin to make	To begin to use	the digestive	Deufeure electric (c.c.)	begin to discuss my	Key Skills:
systematic and	i o begin lo use	system	Perform simple tests	find things and	Begin to identify
careful observations	simple secondary		with support. To	lina things out.	differences, similarities
and, where	Sources to IIna	Key Skills:	begin to discuss my	Degin to record and	or changes related to
appropriate, take	a118WE18.	Begin to recognise	ideas about how to	Degin to record and	simple scientific ideas
accurate	Regin to talk about	when a simple fair	nna things out.	findings in a range of	and processes.
measurements using	what they have found	test is necessary and	Pagin to record	munys in a range of	
standard units, using	out and how they	help to decide how to	simple data	ways.	Use simple secondary
a range or	found it out	set it up.	simple data.		sources to find
equipment, including		Oothor recent and			answers.
mennometers.	Use some simple	Gather, record, and			
	scientific language.	present data in a			
		present uata III a			
		valiely UI Ways IU			

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			help in answering questions.			
Links to Gatsby Benchmarks:	Benchmark 3 – Addressing the needs of the student and * - Personal Guidance Students to consider what skills are needed to be a doctor/ nurse / medical professional lead onto looking at what skills are needed for different roles they are interested in and what qualifications.	Benchmark 4 – Linking Curriculum to learning Students to consider what skills are needed to be an electrician. Why is it important to be safe around electrical wires / equipment? To understand the importance that all live parts of electrical equipment are inaccessible during operation.	Benchmark 3 – Addressing the needs of the student and * - Personal Guidance Students to consider what skills are needed to be engineer / site engineer lead onto looking at what skills are needed for different roles they are interested in and what qualifications.	Benchmark 4 – Linking Curriculum to learning Students to consider what skills are needed to be a surgeon / doctor / physiotherapist. To know the names of body parts and understand the uses of them.	Benchmark 3 – Addressing the needs of the student and * - Personal Guidance Students to consider what skills are needed to be a doctor / Otorhinolaryngology / dietician / Exercise physiologist., Fitness Centre manager. Personal trainer, Sport therapist lead onto looking at what skills are needed for different roles they are interested in and what qualifications.	Benchmark 2, – Learning from the Career and Labor Market information. Benchmark 3 – Addressing the needs of the student and * - Personal Guidance Benchmark 6 – Experience of Work places Students to consider what skills are needed to access the opportunities they are interested in. Looking at careers in sports and researching sports.