

YEAR 8 SCIENCE 2023-2024

YEAR	TRINITY 2	MICHAELMAS 1	MICHAELMAS 2	LENT 1	LENT 2	TRINITY 1
8	Big Idea: Ecosystems	Big Idea: Genes	Big Idea: Matter	Big Idea: Forces	Big Idea: Organisms	Big Idea: Earth
	Interdependence	Variation and	Elements and the Periodic	Contact Forces and	Breathing and Digestion	Earth's Resources and
	In this unit pupils will learn	reproduction	Table	Pressure	In this unit pupils will learn	Climate
	about food chains, webs	In this unit pupils will learn		In this unit pupils will	about the structure and	In this unit pupils will learn
	and what happens when	about what variation is and	about the elements,	learns about the forces of	function of the breathing	about the impact of human
	they are disrupted,	the different causes	mixtures and compounds,	friction, air resistance and	system, the processes of	activity on the atmosphere
	ecosystems and	including those that are	5	water resistance as well as	inhalation, exhalation and	and the importance of the
	competition within the	continuous and	compounds. Pupils will also	the forces that affect	gas exchange, the effect of	carbon cycle. They will also
	ecosystem. Pupils will also	discontinuous. Pupils will	learn about the	squashing, stretching and	smoking drugs and alcohol.	lean about the ways that
	learn about the structure	also learn about puberty,	arrangement of the	turning forces. Pupils will	Pupils will also learn about	we use the Earth's
	and function of the parts of		periodic table, its	also learn about pressure	the different nutrients	resources and how we can
	a flower, pollination, plant	reproductive systems. They	development and the	in gases, liquids and solids.	needed for a balanced diet,	reduce this to preserve
	fertilisation, germination	will then learn about	properties of elements in		how to test for their	them.
	and seed dispersal.	fertilisation, implantation,	groups 1, 7 and 0.		presence in foods, the	
		development of a foetus,			structure and function of	
	Big Idea: Earth		Big Idea: Waves		the digestive system, and	
	Earth Structure and	contraception.	Sound and Light		the role of enzymes in this	
	Universe		In this unit pupils will learn		process.	
	In this unit pupils will learn	0	about how sound waves			
	about the structure of the	0	are produced, the		Big Idea: Reactions	
			properties of sound waves		Types of Reaction	
			such as amplitude,		In this unit pupils will learn	
	metamorphic rocks leading		wavelength, frequency and		about what happens to the	
	<i>,</i> , , , , , , , , , , , , , , , , , ,		pitch, the structure and		particles during a chemical	
	will also learn about the		function of the ear and how		reaction, conservation of	
	, , , , , , , , , , , , , , , , , , , ,		hearing can be affected.		mass, the products of	
	in the universe and the	·	Pupils will also learn about		combustion and thermal	
	phenomena of day, night,	resistance.	the properties of light,		decomposition. Pupils will	
	seasons and the phases of		reflection and refraction,		also learn about	
	the moon.		the structure and function		exothermic and	
			of the eye and why we see		endothermic reactions and	
			colours.		how to represent them in	
					energy level diagrams.	