

Year 7 Overview			Pupils in year 7 build upon the key scientific concepts they completed at KS2. This is achieved through a sequenced curriculum delivered through the 10 big ideas of science which are introduced in year 7 and developed further through to year 11.								
	Trinity 2		Michaelmas 1		Michaelmas 2		Lent 1		Lent 2		Trinity 1
	June	July	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Topic/Big Question			Skills in Science	Particle Model	Movement and Cells	Speed and Gravity	Separating Mixtures	Energy Costs and Transfers	Acids and Alkalis	Interdependence	Earth Structure and Universe
Theme(s)			Working Scientifically	Matter	Organisms	Forces	Matter	Energy Costs and Transfers	Reactions	Organisms	Earth
Assessment			Practical to assess skills - Bunsen burner licence.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.
				Extended answer on changes of state	Extended answer on action of muscles.	Extended answer on investigating speed.	Extended answer on solubility curves.	Extended answer on investigating energy content in food.	Extended answer on the uses of neutralisation	Extended answer on predator prey relationships.	Extended answer on seasons.

Year 8 Overview			During year 8 pupils receive four lessons of science per week and complete practical activities. Students are regularly assessed through key tasks and formal assessments. The program of study is designed to ensure pupils move seamlessly onto their GCSE studies, continuously building upon the 10 big ideas outlined and enabling a deep understanding of the world around them.								
	Trinity 2		Michaelmas 1		Michaelmas 2		Lent 1		Lent 2		Trinity 1
	June	July	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Topic/Big Question	Interdependence	Variation and Human Reproduction	Resistance and Current	Elements and Periodic Table	Earth Structure and Universe	Breathing and Digestion	Sound and Light	Types of Reaction	Contact Forces and Pressure		Photosynthesis and Respiration
Theme(s)	Ecosystems	Genes	Electromagnetism	Matter	Earth	Organisms	Waves	Reactions	Forces		Ecosystems
Assessment	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.		End of unit learning checkpoint.
	Extended answer on predator prey relationships.	Extended answer on the menstrual cycle.	Extended answer on electrical circuits.	Extended answer on chemical reactions.	Extended answer on seasons.	Extended answer on gas exchange.	Extended answer on colour and filters.		Extended answer on pressure.		Extended answer on effects of exercise.

Year 9 Overview			The year 9 science journey continues to follow the 10 big ideas of science. It will revisit and build on units that have been covered in years 7 and 8.								
	Trinity 2		Michaelmas 1		Michaelmas 2		Lent 1		Lent 2		Trinity 1
	June	July	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Topic/Big Question	Types of reactions	Earth's resources and climate	Photosynthesis and respiration	Magnetism	Work, heating and cooling	Evolution and inheritance	Waves	Cell Biology - Structure Atomic structure	Energy Organisation - Health	Cell biology - Transport Periodic table	Energy Organisation - Tissues
Theme(s)	Reactions	Earth	Ecosystems	Electromagnetism	Energy	Genes	Waves	Organisms Matter	Energy Organisms	Organisms Matter	Energy Organisms
Assessment	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint.	End of unit learning checkpoint on cell structures	End of unit learning checkpoint on energy stores and resources.	End of unit learning checkpoint on transport in cells.	End of unit learning checkpoint on energy calculations.
	Extended answer on thermal decomposition.	Extended answer on the greenhouse effect.	Extended answer on the effects of exercise.	Extended answer on electromagnets.	Extended answer on conduction.	Extended answer on natural selection.	Extended answer on the electromagnetic spectrum.	End of unit learning checkpoint on atomic structure. Extended answer on the atomic models.	End of unit learning checkpoint on organisation health. Extended answer on coronary heart disease.	End of unit learning checkpoint on osmosis. End of unit learning checkpoint on the periodic table. Extended answer on reactivity of groups 1 and 7.	End of unit learning checkpoint on organisation tissues. Extended answer on the enzymes.