

Year 7	Advent 1	Advent 2	Lent 1	Lent 2	Penetcost 1	Pentecost 2
<b>Topics</b>	Introduction to science particle model and separating mixtures	Forces and gravity	Organisms Ecosystems	Acids & alkalis Metals and non-metals	Energy and Sound	Light STEM project
<b>Skills</b>	Plan and carry out scientific enquiries to test predictions. Using models to represent particles. Using scientific apparatus to separate mixtures.	Working scientifically: present data using appropriate scientific methods. Using equations.	Use models to represent muscle movement. Using equations. Working scientifically - identifying and classifying.	Working scientifically- make and record observations and measurements	Using equations. Making predictions.	Safe and precise practical skills: measuring angles.
<b>Key Questions</b>	How does the arrangement of atoms in solids, liquids and gases relate to their properties?	How does an unbalanced force affect speed?	What are the smallest building blocks in organisms?	Are all acids dangerous?	If energy cannot be created or destroyed then how is it transferred?	How does the eye work?
<b>Assessment</b>	End of Topic Test	Test on everything studied so far	End of Topic Test	Test on everything studied so far	End of Topic Test	End of Year test

Year 8	Advent 1	Advent 2	Lent 1	Lent 2	Penetcost 1	Pentecost 2
<b>Topics</b>	Earth The universe Variation Human Reproduction	Acids & alkalis Metals and non-metals	Breathing Digestion Respiration	Photosynthesis Forces-contact and pressure	Magnetism Electromagnets Elements Periodic Table	Types of reaction Chemical change Waves
<b>Skills</b>	Present observations and data using appropriate methods	Identification of trends and patterns, using observations and presenting data using appropriate methods	Working scientifically: safe practical skills, identifying and classifying foods.	Plan and carry out scientific enquiries to test predictions.	Working scientifically, drawing conclusions, writing and using word equations	Identifying patterns and trends using observation, presenting data and using word equations
<b>Key Questions</b>	How old is the Earth?	Which metals are the most reactive?	What happens in our bodies when we eat food?	Why can we open a door when its so heavy?	How can we lift cars using an electromagnet?	Why don't all chemicals react in the same way?
<b>Assessment</b>	End of Topic Test	Test on everything studied so far	End of Topic Test	Test on everything studied so far	End of Topic Test	End of Year test

Year 9	Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2
<b>Topics</b>	Climate Earth's Resources Evolution Inheritance	Biology - Cell Structure and Transport	Chemistry - History and fundamentals of Atomic Structure	Physics - Energy Stores and Transfers	Biology - Cell division Chemistry - Patterns across the Periodic Table	Physics - Energy and the Environment
<b>Skills</b>	Using graphical methods to spot trends and draw conclusions.	Plan and carry out scientific enquiries to test predictions and record data appropriately. Using microscopes.	Identification of patterns and trends. Writing word and formulae equations. Using modelling to represent atoms.	Rearranging equations. Scientific enquiries: collecting and recording data appropriately. Identifying and reducing risks effectively.	Using modelling to represent cell division.	Rearranging equations. Recording and interpreting a variety of graphic data. Constructing a justified argument.
<b>Key Questions</b>	What is Global Warming and climate change? What can we inherit from our parents? How can we preserve our biodiversity?	What can we find inside our cells? Are all cells the same?	What is an atom? Who discovered the atom and when?	How is energy stored and transferred? How can we use energy more efficiently?	How do cells divide? Do all cells divide?	How can we make renewable energy?
<b>Assessment</b>	End of Topic Test	Test on everything studied so far	End of Topic Test	Test on everything studied so far	End of Topic Test	End of Year test