

Year 8 Chemistry

	Advent 1	Advent 2	Lent 1	Lent 2	Penetcost 1	Pentecost 2
Topics	Another look at acids, alkalis and indicators and Elements.	Elements and the Periodic Table	Periodic Table and Types of Reaction	Types of Reaction and chemical energy	The Earth's Climate	Earth's Resources
Skills	Using indicators to identify acids and alkalis	How to use the Periodic table to predict reactions.	How to successfully observe a reaction and make conclusions	How do we measure the energy procued during achemical reaction?	Using models to show global warming	Using models like Minecraft to show how we extract resources from the Earth's crust.
Key Questions	Are all acids the same?	Who develpoed the Periodic Table and when?	Why don't all chemicals react as vigorously?	Why do some reactions get hot eg hand warmers; and some reactions get cold eg cold packs for sprains?	How does the carbon cycle link to climate change?	Why did we have the Stone Age, Bronze Age and the Iron Age historically? What would our age be called?

Assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment
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	Advent 1	Advent 2	Lent 1	Lent 2	Penetcost 1	Pentecost 2
Topics	Another look at the structure of a cell and human reproduction	Evolution	Natural Selection and Inheritance	Breathing	Digestion	Digestion
Skills	Using microscopes to observe plant and animal cells	Examining fossils to show how life changed over Geological time.	Modelling the structure of DNA	Using models to see how we inhale and exhale	Using chemical analysis to identify the different food groups.	Using chemicals to show digestion by enzymes.
Key Questions	Why do we look like our parents?	Why are some species extinct?	What is genetic modification? Is it safe?	How does smoking, use of drugs and alcohol affect our bodies?	What is a healthy diet?	Do we have bacteria in our digestive systems like cows?
Assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment	End of unit learning checkpoints and sticky knowledge assessment

Year 8 Physics

	Advent 1	Advent 2	Lent 1	Lent 2	Penetcost 1	Pentecost 2
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