

Year 7 Curriculum Overview 2024-2025

Subject	Overview	Autumn 1	Autumn 2		Spring 1	Spring 2	Summer 1	Summer 2	
		(Weeks 1 – 7)	(Weeks 8 – 14)		(Weeks 15 - 20)	(Weeks 21 - 25)	(Weeks 26 - 32)	(Weeks 33 - 38)	
English	Engaging – Year 7 students study a range of different texts and topics to engage them with a love of English. Students improve their writing skills through studies on Myths & Legends. Students, also, progress in their reading and analytical skills by studying a variety of interesting literature texts in different forms and genres: <i>Oliver</i> <i>Twist</i> (prose), Natural World (poetry), <i>Dracula</i> (plays).	Exploration of Creative Writing: Myths & Legends Students improve their writing skills by studying a range of myths and legends – from Pandora's Box to King Arthur. They learn how to employ specific techniques in their own writing to engage readers.	Prose Study: Oliver Twist Students improve their reading skills and gain a good understanding of 19 th Century London by studying Charles Dickens' popular novel, Oliver Twist. They learn how to analyse a text for the writer's methods and effects created.	nt	Introduction to Drama: Dracula Students learn a different form of text: plays. Pupils study Dracula, learning key conventions of play texts and the Gothic genre. Students learn to develop their analytical skills through analysing extracts.	Non-Fiction: The Power of Thought Students are introduced to nonfiction writing through the exploration of war over time. They learn how to utilise key conventions of nonfiction in their own witing.	Poetry Study: Natural World Students are introduced to poetry and learn key techniques and terminology. They study a range of poems and develop their analytical skills.	Genre Study: Science Fiction Students study a range of texts with a futuristic setting and learn how to embed this genre into their own creative writing. They build upon the writing skills they have been practising throughout the year.	nts
Science	Year 7 students explore key aspects of the 3 different Sciences: Biology : Organisms, Cells and Transport; Ecosystems and plant reproduction; Variation and reproduction. Chemistry : Substance and Properties; Metals, acids and alkalis; Earth and the universe. Physics : Energy Transfers and Costs; Waves – light and sound; Forces – Speed and gravity.	 Biology: Ecosystems – The structure of ecosystems, how plants reproduce and competition within communities. Chemistry: Substance and properties – Exploring the particle model and changing of state. Physics: Forces – Speed and Gravity – Investigating the effects of forces in terms of speed and acceleration 	 Biology: Ecosystems – The structure of ecosystems, how plants reproduce and competition within communities. Chemistry: Substance and properties – Exploring the particle model and changing of state. Physics: Forces – Speed and Gravity – Investigating the effects of forces in terms of speed and acceleration 	Assessme	 Biology: Cells and movement Introduction to the building blocks of life and how animal and plants formed with tissue to organs Chemistry: Earth structure and rock cycle Focus on 3 types of rock (Igneous, Sedimentary and Metamorphic) and how they are weathered and eroded. Physics: Waves – light and sound - Exploring the properties of light and sound. 	 Biology: Cells and movement – Introduction to the building blocks of life and how animal and plants formed with tissue to organs Chemistry: Earth structure and rock cycle– Focus on 3 types of rock (Igneous, Sedimentary and Metamorphic) and how they are weathered and eroded. Physics: Waves – light and sound - Exploring the properties of light and sound. 	 Biology: Organisms – breathing and digestion; Ecosystems – photosynthesis and respiration; Evolution and inheritance Chemistry: Particle structure and the Periodic table – Investigate the structure of atoms and how they are arranged in the Periodic table. Physics: Energy transfers and cost – Investigating the different types of energy and how we generate electricity. 	 Biology: Organisms – breathing and digestion; Ecosystems – photosynthesis and respiration; Evolution and inheritance Chemistry: Particle structure and the Periodic table – Investigate the structure of atoms and how they are arranged in the Periodic table. Physics: Energy transfers and cost – Investigating the different types of energy and how we generate electricity. 	Assessmer

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Over the course of year 7,	Place value and ordering	(Conclude solving problems with		(Conclude Operations and	(Conclude constructing,	Conclude I
students will begin KS3 by	integers and decimals	multiplication and division, then		equations with directed	measuring, and using geometric	Geometric
ensuring the security of	_	move on to the next unit)		number then move on to the	notation then move on to the	move on t
knowledge gained across KS2.	Recognise and use integer			next unit)	next unit)	
This knowledge is extended and	place value up to one billion	Understand and use algebraic				Prime nun
developed to look at applied		notation.		Addition and subtraction of	Sequences	
versions, with a distinct	Recognise and use			fractions		Recog
emphasis on problem solving.	decimal place value to	Use single function			Describe and continue	and tr
During the year, students will be	at least hundredths.	machines and series of two		Represent tenths and	sequences in diagram and	 Expres
introduced to algebraic	• Work out intervals and	function machines with		hundredths on diagrams	number forms, both linear	produ
concepts in depth for the first	use number lines.	numbers, bar models and		and number lines.	and non-linear	Power
time.	Compare and order	letters.		Convert mixed numbers	Compare numerical and	Make
Additionally, students will learn	numbers.	Use and interpret algebraic		and improper fractions.	graphical forms.	conjec
about different types of	Use ordered lists to find	notation.		 Add and subtracting 		 Under
numbers, including decimals,	the range and the	Understand and use inverse		fractions with	Developing Geometric	counte
fractions, prime numbers,	median of a set of	operations.		the same	Reasoning	
square, cube numbers etc., and	numbers.	Form and substitute into		denominator		Fraction, o
use them in different capacities,	Round numbers to	expressions, including to		one denominator	Calculate and use angles at	percentag
including geometric and ratio	positive powers of ten	generate sequences.		a multiple of the	a point, angles on a straight	
problems.	Round numbers to one	Represent functions		other	line and vertically opposite	Repres
	significant figure	graphically.		different	angles.	hundr
				denominators	Calculate missing angles in	and nu
	Solving problems with	Equality and Equivalence	Its	Add and subtract	triangles and quadrilaterals.	Intercl
	Addition and Subtraction		en	tractions and decimals		fractio
		Understand equality.	E S	e.g., $\frac{3}{4} + 0.2$		percer
	Use mental and formal	Use fact families.	es:			multip
	written methods of	Form and solve one-step	SS	Constructing, measuring, and		and or
	addition with integers	equations.	4	using geometric notation		• Interp
	choosing the most					
	appropriate method	Collect like terms		Mental arithmetic		fractio
	 Solve problems in the 	conect like terms.		strategies		nercer
	context of perimeter	Operations and equations with		Use known facts to derive		percer
	money and frequency	directed number		other facts,		
	trees and tables.			Evaluate an algebraic		
	Solve problems in the	Order directed numbers		expression given a related		
	context of bar charts	both in contextualised and		Idul		
	and line charts.	abstract situations				
		Revisit four operations to				
	Solving problems with	include directed number.				
	multiplication and division	Use a calculator with				
		directed number.				
	• Multiply by 10, 100 and	Solve two-step equations				
	1000, 0.1 and 0.01, and	(with and without a				
	convert metric units.	calculator)				
	Use mental and formal	• Use the order of operations.				
	written methods of					
	multiplication and					
	division.					

Developing c Reasoning then to the next unit)

mbers and proof

gnise prime, square riangle numbers. ss a number as a lict of prime factors. rs and roots and test ctures. rstand and use rerexamples.

decimal and se equivalence

esent tenths and redths on diagrams umber lines. change between ons, decimals, and ntages for ples of one tenth ne quarter oret pie charts. alent fractions ert between other ons, decimals, and ntages.

Fractions and Percentages of

amounts

Work out simple fractions and percentages of amounts, with and without a calculator

Multiplying and Dividing Fractions

- Multiply and divide a fraction by an integer.
- Multiply and divide a fraction by a fraction.
- Understand and use the reciprocal.

Ratio and Scale

Assessments

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 Further reading: English – The Diary of Anne Frank The Sword in the Stone – T.H White Percy Jackson and the Lightning Thief – Rick Riordan Private Peaceful – Michael Morpurgo Mathematics – The Number Devil, by Hans Magnus Enzensberger The Code Book, by Simon Singh Alex's Adventures in Numberland, by Alex Bellos Cabinet of Mathematical Curiosities, by Ian Stewart 	 Suggested family trips/activities to reinforce learning: English – The Globe Theatre – London Theatre Productions – Norwich Theatre Royal Charles Dickens Museum – London Maths – Science Museum London STEM Centre in York Bletchley Park Royal Observatory at Greenwich
 Alex's Adventures in Numberland, by Alex Bellos Cabinet of Mathematical Curiosities, by Ian Stewart Science – What If by Randall Munroe Curious Minds by Jordan Moore Deady Player 1 by Enerst Cline 	 Science - >Science Museum London
Keady Player 1 by Enerst Cline	