

Curriculum intent

Our aim is to create positive, ambitious and resilient mathematical thinkers. To model and foster collaborative attitudes and instil a love of learning for all. We strive to deliver excellence to all, where everyone can succeed through hard work.

Mathematical mindset for Y7:

"Mathematics grows best when it grows from multiple seeds and in multiple directions" – Terence Tao

"What am I studying this year?"

Content will continue to be reinforced from KS2 and extended upon further, exploring more connections between topics and more practice with problem solving to deepen understanding. Number and proportion will be explored in depth with knowledge strengthened ready for Y8. See the table below for an overview of the topics studied in Y7.

	Week		7 Core	7 Support
Autumn	1		Place Value (Decimals, Rounding)	Place Value (Writing Integers & Decimals, Rounding)
	2			
	3			
	4			
	5		Calculations (4 Operations with Decimals)	Calculations (Four operations, multiply & divide 10,100,1000, mental maths)
	6			
	7			
	8			
	9		Negative Numbers	Negative Numbers
	10			
	11			
	12			
	13		Fractions (Conversions, 4 Operations)	Fractions (Improper, Equivalent, Converting to Decimals, Add & Subtract)
	14			
Spring	15		Indices (Notation, Laws, Roots, Order Ops)	Indices (Notation, Squares, Cubes, Laws, Roots, Order Ops)
	16			
	17			
	18			
	19		Introduction to Algebra (Simplifying Expressions,	Introduction to Algebra (Simplifying Expressions,
	20			
	21			
	22			
	23			
	24			



Summer	25	Substitution, Equations)	Substitution, Equations)
	26		
	27		
	28	Measures (Standard Form, Unit Conversions, Perimeter, Time, Speed)	Measures (Unit Conversions, Perimeter, Time)
	29		
	30		
	31	Shapes, Area, Pythagoras (Shape Properties, Area of Quads & Circles, Pythagoras)	Shapes & Area (Shape Properties, Area Triangles, Trapezia)
	32		
	33		
	34	FDP (Conversions, % of an Amount & Change, 4 operations with FDP)	FDP (Conversions, % of an Amount & Change)
	35		
	36		
	37	FDP (Conversions, % of an Amount & Change, 4 operations with FDP)	FDP (Conversions, % of an Amount & Change)
	38		
	39		

Homework

Homework is set weekly every Wednesday on Dr Frost. Students have the opportunity to continually practice recall of current and prior knowledge to secure their understanding.

Students are also encouraged to use Dr Frost for independent study and for any revision for upcoming assessments.

“How will I be assessed in Maths?”

Students are assessed in two ways:

- Informally with a variety of activities including: mini-whiteboards; check-point questions; hinge questions and low-stakes quizzes. Students will receive verbal feedback in every lesson in response to these checks. Teachers will guide students every lesson through their independent practice, hunt for and address misconceptions as they arise and review answers to all questions set.
- Formally with three assessments sat as “exams” once per term. Students will be given a revision list which includes a list of topics to revise along with search codes for Dr Frost.
 - o Assessment 1 (Autumn) will cover questions from the first 2 topics.
 - o Assessment 2 (Spring) will cover questions from the next 3 topics alongside a few questions from Autumn content.
 - o Assessment 3 (Summer) will cover questions from the next 3 topics alongside a few questions from Autumn and Spring content.



“What is coming up next?”

Next year will continue to build upon all knowledge and skills learnt so far. This means that all knowledge learnt this year will be built upon in greater depth and complexity throughout Y8 as well as discovering new Maths. Students should now be fluent in the topics covered this year and will start to use strategies to problem solve for unseen questions. All topics next year will include a recap of prior learning to practise retrieval and recall strategies. Students will continue to refine their understanding of core content and continue to put reasoning and problem-solving techniques to practice regularly.

Students will demonstrate pride in their work by:

- Presenting information clearly and neatly to aid learning
- Writing a date and title for all work
- Writing in blue or black pen
- Completing drawings and diagrams in pencil
- Glue in sheets flat and in order
- Annotate work and make corrections when asked to
- Cross out any mistakes neatly
- Highlight key words and explanations