



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 Y9:

"I realized that anything really worthwhile was going to take time, hard work and resilience." – Andrew Wiles

"What am I studying this year?"

Content will continue to be reinforced from Y7 and Y8, exploring deeper connections between topics and further practice with problem solving. Number and Algebra hold the greater focus this year for a reinforced set of fundamentals that are crucial for continued study at GCSE next year. See the table below for an overview of the topics studied in Y9.

	Week		9 Extension	9 Core	9 Support
Autumn	1				
	2				
	3		Powers and Roots	Powers and Roots	Powers and Roots
	4				
	5		Pythagoras and Trigonometry	Pythagoras	Triangles
	6				
	7			Expressions	Expressions
	8		Expressions		
	9			Whole numbers and decimals	Whole numbers and decimals
	10		Whole numbers and decimals		
	11				
	12		Area	Area	Area
	13				
	14				
	15		Equations	Equations	Equations
Spring	16		Equations	Equations	Equations
	17				
	18				
	19		Statistics	Statistics	Statistics
	20				
	21		FDP	FDP	FDP
	22		FDP	FDP	FDP
	23				
	24				
	25		Transformations	Transformations	Transformations



	26			
	27	Sequences	Sequences	Sequences
	28			
	29	Ratio and proportion	Ratio and proportion	Ratio and proportion
	30			
	31			
	32	3D shapes	3D shapes	3D shapes
	33			
	34			
	35			
	36	Probability	Probability	Probability
	37			
	38	Extra teaching time/ contingency for school events/ extending etc		
	39			
Summer				

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, low-stakes quizzes and end of topic tests. 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 5 topics.
 - o Assessment 2 (Spring) will cover questions from the next 5 topics alongside a few questions from Autumn content.
 - o Assessment 3 (Summer) will cover questions from the next 6 topics alongside a few questions from Autumn and Spring content.



“What is coming up next?”

Next year will be the formal start of GCSEs. This means that all knowledge learnt this year (and in Y7 and Y8) will be built upon in greater depth and complexity throughout Y10 and Y11. All topics will include regular past exam questions for all students to work on, review and practice to build resilience and problem-solving techniques ready for those final exams.

Students may also wish to opt into taking up GCSE Statistics. And for those aiming for top grades and thinking of taking Maths further after GCSE, the Further Maths (EMC) certificate is an excellent choice!

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