

Year 7 Maths



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. Numeracy will be taught throughout the year in one lesson each week. This will embed fluency in all number skills for all students as well as reinforce enjoyment through Numeracy Ninjas at the start of every numeracy lesson!

Term	Knowledge and skills	Assessment	Homework
Autumn 1	A – Expressions and formulae G – Measures, perimeter and area Numeracy lesson each week	Topic tests	Homework is set weekly every Wednesday on Dr Frost.
Autumn 2	G – Angles A – Sequences and graphs Numeracy lesson each week	Topic tests Assessment week 1 Numeracy test 1	
Spring 1	S – Charts and averages G – Reflection, rotation and symmetry Numeracy lesson each week	Topic tests	Students have to opportunity to continually practice recall of current and prior knowledge to secure their understanding.
Spring 2	G – 3D shapes Numeracy lesson each week	Topic tests Assessment week 2 Numeracy test 2	
Summer 1	R – Ratio and proportion Numeracy lesson each week	Topic tests	Students are also encouraged to use Dr Frost for independent study.
Summer 2	S – Probability A – Finer details in algebra Numeracy lesson each week	Topic tests Assessment week 3 Numeracy test 3	

N = number, A = algebra, R = ratio and proportion, G = geometry and measures, S = statistics and probability

"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 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. 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