



KS3 Maths Curriculum (Y7 & 8)



Mathematics
Mastery

Partner school 2018-19

We are collaborating with 'Mathematics Mastery', started in September 2017, in order to enhance student understanding and enjoyment, as well as raise the attainment of every child. The Mathematics Mastery programme pulls together many established links and methods into one teaching approach. Children are encouraged to physically represent mathematical concepts. Objects and pictures are used to demonstrate and visualise abstract ideas, alongside numbers and symbols. Mastery concepts are explored in a variety of representations and problem-solving contexts to give pupils a richer and deeper learning experience.

The Mathematics Mastery Programme is now running across both Year 7 and Year 8.

The Mathematics Mastery Vision is: '*for every school leaver to achieve a strong foundation in mathematics, with no child left behind*'; for '*a significant proportion of pupils to be in a position to choose to study 'A-Level' and degree level mathematics and mathematics-related sciences.*' Mastery is a journey and long-term goal, achieved through exploration, clarification, practice and application over time. We intend to roll out the 'Mathematics Mastery' programme to Year 8 from September 2018 and Year 9 from September 2019.

- Please see p2. Y7 '*Mathematics Mastery Programme*' curriculum overview.
- Please see p4. Y8 '*Mathematics Mastery Programme*, curriculum overview.

Y7 'Mathematics Mastery Programme' Curriculum Overview 2018-19

| Y7 Mathematics Mastery Overview | |
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| Autumn 1 | Baseline (Essential, Fluency) tests and Pre tests (Aut 1, Aut 2, Spr 1) |
| | Unit 1 - place value and Unit 4 – Addition and subtraction of decimals |
| | Unit 5, 6, 7 & 8 multiplication and division |
| | Unit 9 – Working with units and Unit 1 place value |
| | Unit 2 & 3 – Addition and subtraction and Unit 4 – Addition and subtraction of decimals |
| | Revision and Post Test (Aut 1) |
| | Unit 5, 6, 7 & 8 multiplication and division |
| | Unit 10 – Angles and Unit 11 & 12 – Triangles and quadrilaterals |
| HALF TERM HOLIDAY | |
| Autumn 2 | Unit 5, 6, 7 & 8 multiplication and division |
| | Unit 2 & 3 – Addition and subtraction |
| | Unit 5, 6, 7 & 8 multiplication and division |
| | Revision and Post Test (Aut 2) |
| | Unit 11 & 12 – Triangles and quadrilaterals and Unit 13 Symmetry and tessellation |
| | Unit 11 & 12 – Triangles and quadrilaterals and Unit 13 Symmetry and tessellation |
| | Revision and Post Test (Spr 1) |
| CHRISTMAS HOLIDAY | |
| Spring 1 | Pre Test (Spr 2) |
| | Unit 14 – Understand and use fractions |
| | Unit 14 – Understand and use fractions |
| | Unit 15 – Fractions of amounts |
| | Unit 16 – Multiplying and dividing decimals |
| | Revision and Post Test (Spr 2) |
| HALF TERM HOLIDAY | |
| Spring 2 | Pre Test (Sum 1) |
| | Unit 17 – Order of operations |
| | Unit 18 – Introduction to algebra |
| | Unit 18 – Introduction to algebra |
| | Unit 18 – Introduction to algebra |
| | Revision and Post Test (Sum 1) |
| EASTER HOLIDAY | |
| Summer 1 | Pre Test (Sum 2) (year 8 Spr Part 1) |
| | Unit 20 – Percentages |
| | Unit 20 – Percentages |
| | Unit 7 – Percentage change |
| | Pre Test (Sum 2) , Optional (year 8 Spr Part 1) |
| HALF TERM HOLIDAY | |
| Summer 2 | End of Year tests and revision |
| | Pre Test (year 8 Aut 2 part 1) |
| | Unit 3– Positive and negative numbers |
| | Unit 3– Positive and negative numbers |
| | Unit 3– Positive and negative numbers |
| | Revision and Post Test (Year 8 Aut 2 Part 1) |
| | Activities |
| SUMMER HOLIDAY | |

Y8 'Mathematics Mastery Programme' Curriculum Overview 2018-19

| Week Beginning | Y8 Mathematics Mastery Overview |
|----------------|--|
| Autumn 1 | Aut 1, Aut 2 (Pre-tests) and recap Unit 21 - Handling data |
| | Unit 21 – Handling data |
| | Unit 1 – Primes and factorising |
| | Unit 1 – Primes and factorising |
| | Unit 2– Add and subtract fraction |
| | Unit 2– Add and subtract fraction |
| | Aut 1 (Post) test and start Unit 3 - Positive and negative numbers |
| | Unit 3 - Positive and negative numbers |
| | HALF TERM HOLIDAY |
| Autumn 2 | Unit 4 – Sequences, expressions and equations |
| | Unit 4 – Sequences, expressions and equations |
| | Unit 4 – Sequences, expressions and equations |
| | Aut 2 (Post) test and revision, Spr 1, Spr 2 (Pre-tests) |
| | Unit 6 – Length and area: parallelograms and trapezia |
| | Unit 6 – Length and area: parallelograms and trapezia |
| | Christmas Activities - Create decorations using mathematical construction. |
| | CHRISTMAS HOLIDAY |
| Spring 1 | Unit 5 – Triangles, quadrilaterals and angles in parallel lines |
| | Unit 5 – Triangles, quadrilaterals and angles in parallel lines |
| | Unit 5 – Triangles, quadrilaterals and angles in parallel lines |
| | Spr 1 (Post) test and revision |
| | Unit 7 – Percentage change |
| | Unit 7 – Percentage change |
| | HALF TERM HOLIDAY |
| Spring 2 | Unit 8 – Ratio and rate |
| | Unit 8 – Ratio and rate |
| | Unit 8 – Ratio and rate |
| | Spr 2 (Post) test and revision, Sum 1, Sum 2 (Pre-tests) |
| | Unit 9 – Rounding |
| | Easter Activities - Design an Easter Egg box |
| | EASTER HOLIDAY |
| Summer 1 | Unit 10 – Circumference and area of a circle |
| | Unit 10 – Circumference and area of a circle |
| | Unit 11 – 3D shapes and nets |
| | Unit 12 – Surface area and volume |
| | Unit 12 – Surface area and volume |
| | HALF TERM HOLIDAY |
| Summer 2 | Sum 1 (Post) test and revision. |
| | Unit 13 –statistics |
| | Unit 13 –statistics |
| | Sum 2 (Post) test and revision |
| | End of Year tests, revision and getting ready for GCSE. |
| | SUMMER HOLIDAY |