



MATHS Y7 CURRICULUM AND ASSESSMENT MILESTONES DOCUMENT

YEAR 7 CURRICULUM MILESTONES: MATHS

Autumn Unit 1: Exploring Sequences:	Explore sequences in detail using both diagrams and numbers.
Autumn Unit 2: Understanding a using algebraic notation	Develop an understanding of the basic algebraic form including function machines and substitution.
Autumn Unit 3: Equality and Equivalence	Form and solve one-step linear equations and collect like terms.
Autumn Unit 4: Place value and Ordering	Explore integers up to one billion and decimals to hundredths so numbers can be ordered and rounded.
Autumn Unit 5: Fraction, Decimal and Percentage Equivalence	Gain a deep understanding of the links between fractions, decimals and percentages
Spring Unit 1: Solving Problems with Addition and Subtraction	Build on formal methods of addition and subtraction developed at KS2 to interpret and solve problems in context
Spring Unit 2: Solving problems with Multiplication and Division	Build on methods learnt at KS2 to multiply and divide integers and decimals including in context
Spring Unit 3: Fractions and Percentages of Amounts	Work out fractions and percentages of quantities and link between the two
Spring Unit 4: Directed Number	Understand negative numbers and use the four operations with negative numbers including in context.
Spring Unit 5: Fractional Thinking	Understand equivalence in fractions of any denominators and add and subtract fractions including with different denominators
Summer Unit 1: Construction, Measurement and Notation	Construct and measure diagrams using correct mathematical notation
Summer Unit 2: Developing Geometric Reasoning	Use basic geometric language including angle rules and names & properties of polygons
Summer Unit 3: Developing Number Sense	Learn mental strategies to simplify complex calculations and extend to using with algebra
Summer Unit 4: Sets and Probability	Learn about sets, set notation and systematic listing strategies.
Summer Unit 5: Prime Numbers and Proofs	Revisit factors and multiples to introduce the concept of prime numbers. Test conjecture and use counterexamples

YEAR 7 ASSESSMENT MILESTONES: MATHS

Assessment: Base line Written test on topics learnt in Year 6	Pupils will be provided with their score which will be used, alongside information from primary schools, to decide pupils sets
Autumn Unit 1: Exploring Sequences:	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn Unit 2: Understanding a using algebraic notation	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn Unit 3: Equality and Equivalence	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn Unit 4: Place value and Ordering	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn Unit 5: Fraction, Decimal and Percentage Equivalence	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring Unit 1: Solving Problems with Addition and Subtraction	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring Unit 2: Solving problems with Multiplication and Division	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Assessment: Mid-Year Written test on topics learnt so far in Year 7	Pupils will be given a breakdown of their strengths and weaknesses from the assessment. These topics will make up future revision lessons.
Spring Unit 3: Fractions and Percentages of Amounts	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring Unit 4: Directed Number	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring Unit 5: Fractional Thinking	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer Unit 1: Construction, Measurement and Notation	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer Unit 2: Developing Geometric Reasoning	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer Unit 3: Developing Number Sense	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer Unit 4: Sets and Probability	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer Unit 5: Prime Numbers and Proofs	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Assessment: End of Year written test on topics learnt in Year 7	Pupil tests will be marked by teachers and answers modelled for pupils to self-assess. Scores, alongside other assessments and teacher assessment, will be used to determine maths sets for Year 8