

Curriculum Map



Subject: Mathematics

Year group: 7

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content Declarative Knowledge — 'Know What'	Algebraic Thinking Sequences Understanding and using algebraic notation Equality and Equivalence	Place Value and Proportion Place value and ordering integers and decimals Fractions, decimals and percentage equivalence	Applications of Number Solving problems with addition and subtraction Solving problems with multiplication and division Fractions and percentages of amounts	Directed Number / Fractional thinking Four Operations with directed number Addition and subtraction of fractions	Line and Angles Constructing, measuring and using geometric notation Developing geometric reasoning	Reasoning with Number Sets and probability Prime numbers and proof
Skills Procedural Knowledge — 'Know How'	 Describe and continue sequences in diagrams and number forms, both linear and non-linear Using single function machines and series of two function machines with numbers, bar models and letters Forming and substituting into expressions, including generating sequences Representing functions graphically Understanding equality and fact families Forming and solving one-step equations Understanding equivalence Collecting like terms 	 Integer place value up to one billion Decimal place value to hundredths Working out and using number lines Comparing and ordering numbers The range and median Rounding positive powers of ten and to one significant figure Exploring and using standard index form Representing tenths and hundredths on diagrams and number lines Interchanging between fractions, decimals and percentages for multiples of tenths and quarters Interpreting pie charts Equivalent fractions Converting between any fraction, decimals and percentages. 	 Use formal methods of additional with integers and decimals Solve problems in the context of perimeter, money and frequency trees and tables Multiplying by 10, 100 and 1000; unit conversions Formal methods of multiplication and division HCF and LCM Areas of triangles, rectangles and parallelograms Finding the mean Finding fractions and percentages of amounts Solving two-step equations Introduction to the order of operations 	 Ordering directed numbers with and without context Revisit four operations to include directed number Using a calculator with directed number Order of operations Representing tenths and hundredths on diagrams and number lines Adding/subtracting fractions with common denominators, including with answers above one Revisit equivalent fractions Adding and subtracting fractions with simple different denominators Mixed questions 	 Drawing and measuring lines and angles using ruler and protractor Understanding and using notation for lines and angles Understand parallel and perpendicular Recognise types of triangles, quadrilaterals and other polygons Drawing triangles given SSS, SAS, ASA Drawing and interpreting pie charts Calculating using angles at a point, angles on a straight line and vertically opposite angles Calculating missing angles in triangles and quadrilaterals Addition in standard form Parallel lines rules Angles in polygons 	 Understanding and using set notations Venn diagrams Probability of single events Types of number, including prime factorisation Powers and roots Using counter examples. Venn diagrams for HCF and LCM



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Key Questions	Can you explain what x+2=6 means?	Can you explain what % means and why it can also be written as 20% and 0.2?	Do you know the formulae for finding the area of rectangles, parallelograms and triangles?	Can you explain why 8/3 is the same as 2 and 3/4?	Are you confident in using a protractor to measure angles?	Can you use Venn diagrams to answer questions on probability and prime factorisation?
Assessment	Baseline assessment Mini unit test	Mini unit test	Mini unit test	Mini unit test	Mini unit test	Mini unit test
Literacy/Numeracy/ SMSC/Character	Ridgeway 6					
Blended Learning opportunities						