Mathematics – CH KS3 Curriculum Map

Central Region Schools Trust
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Year 9

Autumn 1 – Reasoning with Algebra Straight line graphs Forming and solving equations Testing conjectures	**Autumn 2 – Constructing in 2D and 3D** Three-dimensional shapes Constructions and congruency
Spring 1 – Reasoning with Number Numbers Using percentages Maths and money	**Spring 2 – Reasoning with Geometry** Deduction Rotations and translation Pythagoras' theorem
Summer 1 – Reasoning with Proportion Enlargement and similarity Solving ratio and proportion problems Rates	**Summer 2 – Representations and Revision** Probability Algebraic representation

Year 8

Autumn 1 – Proportional Reasoning Ratio and scale Multiplicative change Multiplying and dividing fractions	**Autumn 2 – Representations** Working in the cartesian plane Representing data Tables and probability
Spring 1 – Algebraic Techniques Brackets, equations and inequalities Sequences Indices	**Spring 2 – Developing Number** Fractions and percentages Standard index form Number sense
Summer 1 – Developing Geometry Angles in parallel lines and polygons Area of trapezia and circles Line symmetry and reflection	**Summer 2 – Reasoning with Data** The data handling cycle Measures of location

Year 7

Autumn 1 – Algebraic Thinking Sequences Using algebraic notation Equality and equivalence	**Autumn 2 – Place Value and Proportion** Place value and ordering integers and decimals Fraction, decimal and percentage equivalence
Spring 1 – Applications of Number Solving problems with addition and subtraction Solving problems with multiplication and division Fractions and percentages of amounts	**Spring 2 – Directed Number and Fractional Thinking** Operations and equations with directed number Addition and subtraction of fractions
Summer 1 – Lines and Angles Constructing, measuring and using geometric notation Developing geometric reasoning	**Summer 2 – Reasoning with Number** Developing number sense Sets and probability Prime numbers and proof

Mathematics – KS2 Curriculum Map

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Year 7

Autumn 1 – Algebraic Thinking Sequences Using algebraic notation Equality and equivalence	**Autumn 2 – Place Value and Proportion** Place value and ordering integers and decimals Fraction, decimal and percentage equivalence
Spring 1 – Applications of Number Solving problems with addition and subtraction Solving problems with multiplication and division Fractions and percentages of amounts	**Spring 2 – Directed Number and Fractional Thinking** Operations and equations with directed number Addition and subtraction of fractions
Summer 1 – Lines and Angles Constructing, measuring and using geometric notation Developing geometric reasoning	**Summer 2 – Reasoning with Number** Developing number sense Sets and probability Prime numbers and proof

Year 6

Autumn 1 – Place Value and the Four Operations Place Value Addition and Subtraction inc. Perimeter and Place Value Multiplication and Division inc. Area and Volume	**Autumn 2 – Fractions, Decimals, Percentages** Inc. adding and subtracting fractions
Spring 1 – Ratio and Algebra Ratio Negative Numbers Measurement inc. converting units	**Spring 2 – Geometry and Statistics** Statistics Algebra Properties of Shape inc. angles, position and direction Coordinates inc. translation and reflection
Summer 1 – Lines and Number Measurement inc. converting units Fractions, decimals and percentages inc. ratio	**Summer 2 – Y7 Transition/Problem Solving** Real life maths More complex algebra inc. balancing equations, pie charts, rules of angle, ratio, addition and subtraction of negatives

Year 5

Autumn 1 – Place Value, Addition and Subtraction Place Value Addition and Subtraction inc. Perimeter	**Autumn 2 – Multiplication, Division and Fractions** Multiplication and Division inc. Area Fractions inc. equivalence, ordering, adding and subtracting
Spring 1 - Multiplication, Division and Fractional Thinking Multiplying and dividing Fractions inc. multiplying and fractions of an amount	**Spring 2 – Fractions, Decimals, Geometry** Fractions and decimals inc. Equivalence, ordering and rounding Shape inc. Angles, polygons and 3-D shapes
Summer 1 – Representations and Shape Negative numbers Statistics inc. Line graphs and timetables Position and direction inc. Coordinates, translation and symmetry	**Summer 2 – Decimals and Revision** Decimals inc. adding, subtracting, multiplying and dividing Revision depending on gaps in learning

Year 4

Autumn 1 – Place Value, Addition and Subtraction Place Value Addition and Subtraction inc. adding and subtracting two 4-digit numbers with exchanges	**Autumn 2 – Area, Multiplication and Division** Area Multiplication and Division inc. Times tables up to 12
Spring 1 – Multiplication, Division, Measurement Multiplying and dividing inc. Multiplying and dividing a 3-digit by a 1-digit Length and perimeter	**Spring 2 – Fractions and Decimals** Fractions inc. converting, equivalence, adding and subtracting Decimals including tenths, hundreths and dividing by 10 and 100
Summer 1 – Decimals, Money, Time Decimals inc. Partitioning, comparing, ordering and rounding Money inc. Converting, comparing, estimating and calculating, Time	**Summer 2 – Revision** Shape Statistics Position and direction