



Co-op Academy
Belle Vue

Co-op Belle Vue Maths five year overview			
Year 7 Long Term Plan			
Block 1	Block 2	Block 3	Block 4
Algebraic Thinking	Place Value and Proportion	Applications of Number	Directed Number
Key concepts	Key concepts	Key concepts	Key concepts
<ul style="list-style-type: none">SequencesUnderstanding and using algebraic notationEquality and equivalence	<ul style="list-style-type: none">Place value and ordering integers and decimalsFraction, decimal and percentage equivalence	<ul style="list-style-type: none">Solving problems with addition & subtractionSolving problems with multiplication and division	<ul style="list-style-type: none">Four operations with directed number
Assessment: PK: Sequences PK: algebraic notation	Assessment: PK: Place value PK: Fractions	Assessment: PK: addition & subtraction PK: multiplication and division	Assessment: PK: Four operations



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Year 7 Long Term Plan		
Block 5	Block 6	Block 7
Fractional Thinking	Lines and Angles	Reasoning with Number
Key concepts	Key concepts	Key concepts
<ul style="list-style-type: none">Addition and subtraction of fractions	<ul style="list-style-type: none">Constructing, measuring and using geometric notationDeveloping geometric reasoning	<ul style="list-style-type: none">Developing number senseSets and probabilityPrime numbers and proof
Assessment: PK: Fractions	Assessment: PK: Constructing PK: Algebra	Assessment: PK: Number PK: Probability



Year 8 Long Term Plan					
Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
Proportional Reasoning	Representations	Algebraic Techniques	Developing Number	Developing Geometry	Reasoning with Data
Key concepts	Key concepts	Key concepts	Key concepts	Key concepts	Key concepts
<ul style="list-style-type: none"> • Ratio and scale • Multiplicative change • Multiplying and dividing fractions 	<ul style="list-style-type: none"> • Working in the Cartesian plane • Representing data • Tables & Probability 	<ul style="list-style-type: none"> • Brackets, equations and inequalities • Sequence • Indices 	<ul style="list-style-type: none"> • Fractions and percentages • Standard index form • Number sense 	<ul style="list-style-type: none"> • Angles in parallel lines and polygons • Area of trapezia and circles • Line symmetry and reflection 	<ul style="list-style-type: none"> • The data handling cycle • Measures of location
Assessment: PK: Ratio PK: Multiplicative change	Assessment: PK: Coordinates PK: Data	Assessment: PK: Equations and inequalities PK: Sequence	Assessment: PK: Fractions and percentages PK: Standard index form	Assessment: PK: Angles in parallel lines PK: Area	Assessment: PK: Data PK: Measures of location



Year 9 Long Term Plan					
Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
Reasoning with Algebra	Constructing in 2 and 3 Dimensions	Reasoning with Number	Reasoning with Geometry	Reasoning with Proportion	Representations and Revision
Key concepts	Key concepts	Key concepts	Key concepts	Key concepts	Key concepts
<ul style="list-style-type: none"> • Straight line graphs • Forming and solving equations • Testing conjectures 	<ul style="list-style-type: none"> • Three-dimensional shapes • Constructions and congruency 	<ul style="list-style-type: none"> • Numbers • Using percentages • Maths and money 	<ul style="list-style-type: none"> • Deduction • Rotation and translation • Pythagoras' Theorem 	<ul style="list-style-type: none"> • Enlargement and similarity • Solving ratio & proportion problems • Rates 	<ul style="list-style-type: none"> • Probability • Algebraic representation • Revision
Assessment: PK: Straight line PK: Forming and solving equations	Assessment: PK: 3D shapes PK: Constructions	Assessment: PK: Numbers PK: Percentages	Assessment: PK: Transformations 1 PK: Pythagoras	Assessment: PK: Transformations 2 PK: Ratio	Assessment: PK: Probability PK: Algebra



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Year 10 Long Term Plan -			
Block 1	Block 2	Block 3	Block 4
Similarity	Developing Algebra	Geometry	Proportions and Proportional Change
Key concepts	Key concepts	Key concepts	Key concepts
<ul style="list-style-type: none">• Congruence, similarity and enlargement• Trigonometry	<ul style="list-style-type: none">• Representing solutions of equations and inequalities• Simultaneous equations	<ul style="list-style-type: none">• Angles & bearings• Working with circles• Vectors	<ul style="list-style-type: none">• Ratios & fractions• Percentages and Interest• Probability
Assessment: PK: Congruence and similarity PK: Trigonometry	Assessment: PK: Equations and inequalities PK: Simultaneous equations	Assessment: PK: Angles & bearings PK: Circles	Assessment: PK: Ratios & fractions PK: Percentages



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Year 10 Long Term Plan		
Block 5	Block 6	Block 7
Delving into Data	Using Number	Expressions
Key concepts	Key concepts	Key concepts
<ul style="list-style-type: none">Collecting, representing and interpreting data	<ul style="list-style-type: none">Non-calculator methodsTypes of number and sequencesIndices and Roots	<ul style="list-style-type: none">Manipulating expressions
Assessment: PK: Data	Assessment: PK: Number and sequences PK: Indices and Roots	Assessment: PK: Algebraic expressions



Year 11 Long Term Plan			
Block 1	Block 2	Block 3	Block 4
Graphs	Algebra	Reasoning	Revision and Communication
Key concepts	Key concepts	Key concepts	Key concepts
<ul style="list-style-type: none"> • Gradients & lines • Non-linear graphs • Using graphs 	<ul style="list-style-type: none"> • Expanding & factorising • Changing the subject • Functions 	<ul style="list-style-type: none"> • Multiplicative • Geometric • Algebraic 	<ul style="list-style-type: none"> • Transforming & constructing • Listing & describing • Show that...
Assessment: PK: Gradients & lines PK: Non-linear graphs	Assessment: PK: Expanding & factorising PK: Rearranging formulae	Assessment: PK: Reasoning: Multiplicative PK: Reasoning: Geometric	Assessment: PK: Transforming PK: Listing & describing



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