

## Co-op Academy Walkden Curriculum Overview 2021-22

## Maths

## Key Stage 3

Power Concepts: Number/ Ratio and Proportion Algebra Shape, Space and Measure Statistics and Probability

Year Group		AU1	AU2	SP1	SP2	SU1	SU2
	Core Theme	Algebraic Thinking	Place Value and proportion	Applications of number	Directed Number & Fractional Thinking	Lines and Angles	Reasoning with Number
7	Units of Work	Sequences Understand and use algebraic notation Equality and Equivalence	Place value and ordering integers and decimals  Fraction, decimal and percentage equivalence	Solving Problems with addition and subtraction  Solving problems with multiplication and division  Fractions and percentages of amounts	Operations and equations with directed number  Addition and subtraction of fractions	Constructing, measuring and using geometric notation  Developing geometric reasoning	Developing number sense  Sets and Probability  Prime numbers and proof
	Core Theme	Proportional Reasoning	Representations	Algebraic Techniques	Developing Number	Developing Geometry	Reasoning with Data
8	Units of Work	Ratio and scale  Multiplicative change	Working in the cartesian plane	Brackets, equations and Inequalities	Fractions and percentages	Angles in Parallel lines and polygons	Measures of location The data handling
		Manaphoduve Change	Representing data	Sequences	Standard index form		cycle



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		Multiplying and dividing fractions	Tables & probability	Indices	Number Sense	Area of trapezia and circles	
						Line symmetry and reflection	
9	Core Theme	Reasoning with Algebra	Constructing in 2 and 3 dimensions	Reasoning with number	Reasoning with geometry	Reasoning with proportion	Representations
	Units of Work	Forming and solving equations	Three dimensional shapes	Numbers	Deduction	Enlargement and similarity	Solving problems using graphs, tables
				Using Percentages	Rotation and		and algebra
		Straight line graphs	Constructions and congruency	Maths and money	translation	Solving ratio and proportion problems	(Mixed Problems)
		Testing conjectures			Pythagoras Theorem	Rates	,



## Key Stage 4

Power Concepts: Number/ Ratio and Proportion Algebra Shape, Space and Measure Statistics and Probability

10	Core Theme	AT1: Similarity	AT2: Developing Algebra	SP1:Geometry	SP2:Proportions and proportional change	SU1: Delving into Data	SU2: Using number
2021	Units of Work	Congruence, similarity and enlargement	Representing solutions of equations and inequalities	Angles and bearings Working with circles	Ratio & Fractions  Percentages with	Collecting, representing and interpreting data	Non-calculator methods
		Trigonometry	Simultaneous equations	Vectors	interest  Probability		Types of number and sequences
	_						Indices and Roots
11	Core Theme	AT1: Algebra QLA and LSQ as well	AT2: Graphs QLA and LSQ as well	SP1: Reasoning QLA and LSQ as well	SP2: Revision and Communication	SU1: Consolidation of gaps	SU2: Examinations
2022	Units of Work	Expanding & Factorising	Gradients and lines	Multiplicative	Transforming & Constructing		
		Changing the subject	Non-linear graphs Using graphs	Geometric  Algebraic	Listing & Describing		
		Functions New content*	Journal of the state of the sta		Show that		
11 2021		AT1: Algebra, Graphs, Number and Shape QLA and LSQ as well	AT2: Data, Shape and Graphs QLA and LSQ as well	SP1: Number, Shape, Graphs and Algebra QLA and LSQ as well	SP2: Data, Number and Shape QLA and LSQ as well	SU1: Consolidation of gaps	SU2: Examinations



Expand	ing & Listing and Describing	Multiplicative	Finding Averages
Factoris	<mark>Probability</mark>	Reasoning	Percentages and
Function	ns Geometric Reasoning	SDT, MDV and PFA	<u>Interest</u>
Changir	ng the subject   Vectors	Using Graphs	Volume, Surface
Gradien	ts and lines Transforming and	Algebraic Reasoning	areas
Number	constructing	<b>Gradient and lines</b>	Circular Areas and
Pythago	oras and Non-linear graphs		Volumes
Trigonoi	metry and the second se		