



**LYNN GROVE
ACADEMY**
*Creative
Education
Trust*

Keystage 4

MATHS

Curriculum map

Set 1- Higher

Set 2 - Crossover and Higher

Set 3 - Crossover

**Set 4 and 5 - Working towards and
Crossover**

Working Towards ...

UNIT 1: Number, powers, roots, decimals and rounding to
10,100,1000

[1a.](#) Integers and place value

[1b.](#) Decimals

[1c.](#) Indices, powers and roots

[1d.](#) Factors, multiples and primes

UNIT 2: Expressions & substituting into simple formulae

[2a.](#) Algebra: the basics

[2b.](#) Expressions and substitution into formulae

UNIT 3: Drawing and interpreting tables and charts

UNIT 4: Fractions and percentages

UNIT 5: Properties of shapes and simple angle facts

UNIT 6: Perimeter and Area

UNIT 7: 3D forms

UNIT 8: Mensuration

UNIT 9: Probability

Scheme of Work

Crossover

Unit	JM Clip No.	Topic
1	01	Two Way Tables
2	02	Frequency Trees
3	53	Venn Diagrams
4	04	Product of Prime Factors
5	06	Multiples in Context
6	07	Best Value
7	08	Exchange Rates
8	09	Rounding and Error Intervals
9	70	Estimation
10	10	Percentage of an Amount
11	11	Interest and Growth
	12	Depreciation and Decay
12	03	Use of Calculator
13	13	Reverse Percentages
14	14 / 15	Fractions
15	16 / 17	Ratio
16	18	Proportion - Recipes
17	19 / 20	Standard Index Form
18	21	Index Laws
19	22	Expand and Simplify
20	23 / 24	Factorising
21		Solving equations
22	25	Subject of
23	26	Averages
24	27	Averages from a Table
	28	Averages from Grouped Data
25	05	Inequalities
26	29	Frequency Diagrams
27	30	Scatter Graphs
28	31	Time Series
29	32	Straight Line Graphs
30	33	Quadratic and Cubic Graphs
31	34 / 35	Coordinate Geometry

Unit	JM Clip No.	Topic
32	36	Speed, Distance, Time
	37	Compound Measures
33	38	Real Life Graphs
34	39 / 40	Pythagoras
	41	Trig - Non Calculator
	42	Trig - Finding Sides
	43	Trig - Finding Angles
	45	Pythagoras with Trig
35	44	Bearings
36	46	Alternate/Corresponding Angles
37	47	Interior and Exterior Angles
38	48	Sampling
39	49	Pie Charts
40	50	Probability
41	51 / 52	Probability Trees
42	54	Plans and Elevations
43	55	Constructions
44	56 / 57	Circles
	58	Arcs and Sectors
45	59 / 60	Surface Area and Volume
46	61	Congruence
	62	Similar Shapes
47	63	Enlargements
	64	Reflections
	65	Rotations
	66	Reflections with Rotations
	67	Translations
48	68	Vectors
49	69	Sequences
50	71 / 72	Forming and Solving Equations
51	73 / 74	Simultaneous Equations
52		Direct Proportion
		Inverse Proportion

Scheme of Work - Higher

Unit	JM Clip No.	Topic
<u>1</u>		<u>a.</u> Recurring fractions
		<u>b.</u> Fractional/negative indices
		<u>c.</u> Product rule
		<u>d.</u> Upper & lower bounds
		<u>e.</u> Surds including rationalising
<u>2</u>		<u>a.</u> Expanding & factorising
		<u>b.</u> Rearranging equations
		<u>c.</u> Sequences (including quadratics)
<u>3</u>		Coordinate geometry
<u>4</u>		Surface area & volume - cylinders, cones, spheres & frustums
<u>5</u>		Transformations
<u>6</u>		Quadratics including the formula & iteration
<u>7</u>		Simultaneous equations
<u>8</u>		Conditional probability
<u>9</u>		Direct and inverse proportion
<u>10</u>		Similarity in 2D & 3D
<u>11</u>		<u>a.</u> Graphs of trig functions
		<u>b.</u> Further trigonometry
<u>12</u>		<u>a.</u> Sampling
		<u>b.</u> Cumulative frequency & box plots
		<u>c.</u> Histograms
<u>13</u>		<u>a.</u> Using graphs of circles, cubes and quadratics
		<u>b.</u> Gradient and area under graphs
<u>14</u>		Circle geometry – gradients/tangents
<u>15</u>		Circle theorems
<u>16</u>		Algebraic fractions
<u>17</u>		Functions
<u>18</u>		Algebraic Proof
<u>19</u>		Congruence and geometric proof
<u>20</u>		Vectors