



**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 |
|------|----------------|--|
| 1 | | <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 |
| 2 | | <u>a.</u> Expanding & factorising |
| | | <u>b.</u> Rearranging equations |
| | | <u>c.</u> Sequences (including quadratics) |
| 3 | | Coordinate geometry |
| 4 | | Surface area & volume - cylinders, cones, spheres & frustums |
| 5 | | Transformations |
| 6 | | Quadratics including the formula & iteration |
| 7 | | Simultaneous equations |
| 8 | | Conditional probability |
| 9 | | Direct and inverse proportion |
| 10 | | Similarity in 2D & 3D |
| 11 | | <u>a.</u> Graphs of trig functions |
| | | <u>b.</u> Further trigonometry |
| 12 | | <u>a.</u> Sampling |
| | | <u>b.</u> Cumulative frequency & box plots |
| | | <u>c.</u> Histograms |
| 13 | | <u>a.</u> Using graphs of circles, cubes and quadratics |
| | | <u>b.</u> Gradient and area under graphs |
| 14 | | Circle geometry – gradients/tangents |
| 15 | | Circle theorems |
| 16 | | Algebraic fractions |
| 17 | | Functions |
| 18 | | Algebraic Proof |
| 19 | | Congruence and geometric proof |
| 20 | | Vectors |