

MATHS Learning Journey – A Mastery Approach

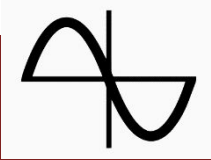
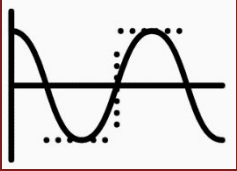


Examinations

- Revision & Communication
 - Transforming & Constructing
 - Listing & Describing
 - Show that...

$$fx$$

$$\frac{\sqrt{12}}{\sqrt{121}}$$



$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

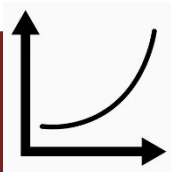


- Reasoning
 - Multiplicative
 - Geometric
 - Algebraic

- Algebra
 - Expanding & Factorising
 - Changing the Subject
 - Functions

- Graphs
 - Gradients & Lines
 - Non-Linear Graphs
 - Using Graphs

$$\pi$$

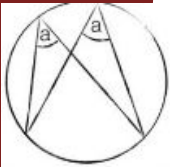


$$\left(\frac{27x^6}{y^3}\right)^{\frac{2}{3}}$$

$$\geq$$

Year 11

11

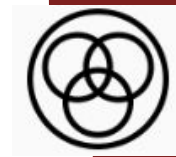


- Using Number
 - Non-calculator Methods
 - Types of Number Sequences
 - Indices & Roots

- Delving into Data
 - Collecting, Representing & Interpreting Data

- Proportions & Proportional Change
 - Ratios & Fractions
 - Percentages & Interest
 - Probability

$$\sqrt{2}$$



$$<$$

$$\sqrt[3]{}$$



$$>$$

Year 10

10

$$\pi r^2$$

- Geometry
 - Angles & Bearings
 - Circles
 - Vectors



- Developing Algebra
 - Representing Solutions of Equations & Inequalities
 - Simultaneous Equations

- Similarity
 - Congruence, Similarity & Enlargement
 - Trigonometry

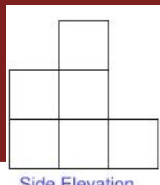
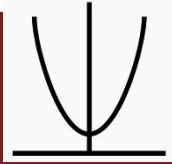
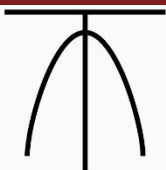


- Reasoning with Proportion
 - Enlargement & Similarity
 - Ratio & Proportion Problems
 - Rates

- Representations
 - Solving Problems using Graphs, Tables & Algebra

- Reasoning & Geometry
 - Deduction
 - Rotation & Translation
 - Pythagoras' Theorem

Year 9



- Reasoning with Algebra
 - Straight Line Graphs
 - Forming & Solving Equations
 - Testing Conjectures

- Reasoning with Number
 - Numbers
 - Using Percentages
 - Maths & Money

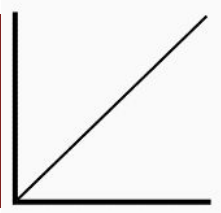
- Constructing in 2 & 3 Dimensions
 - 3D shapes
 - Constructions & Congruency

9

Year 9

$$x^n$$

$$\%$$

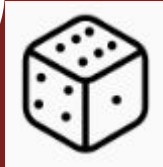


- Data
 - Data Handling Cycle
 - Measures of Location

- Proportional Reasoning
 - Ratio & Scale
 - Multiplicative Change
 - Multiplying & Dividing Fractions

- Developing Geometry
 - Angles in Parallel Lines & Polygons
 - Area of Trapezia & Circles
 - Line Symmetry & Reflection

- Developing Number
 - Fractions & Percentages
 - Standard Form
 - Number Sense



$$\sqrt[n]{x}$$

8

Year 8

- Algebraic Techniques
 - Equations & Inequalities
 - Sequences
 - Indices

- Lines & Angles
 - Constructing, Measuring & using Notation

- Application of Number
 - Addition & Subtraction Problems
 - Multiplication & Division
 - Fractions & Decimals of Amounts

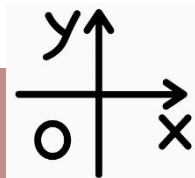
- Representations
 - Cartesian Plane
 - Data
 - Tables & Probability

- Fractional Thinking
 - Addition & Subtraction

- Directed Number
 - Four Operations

Year 7

7



- Reasoning with Number
 - Number Sense
 - Sets & Probability
 - Prime Numbers & Proof

- Place Value & Proportion
 - Place Value
 - Ordering Integers & Decimals
 - FDP Equivalence

- Algebraic Thinking
 - Sequences
 - Algebraic Notation
 - Equality & Equivalence

