Limehurst Academy

Mathematics Learning Journey

Revision and Communication
- Transforming and constructing
- Listing and describing
- Show that…

Reasoning
- Multiplicative
- Geometric
- Algebraic

Graphs
- Gradients and lines
- Non-linear graphs
- Using graphs

Using Number
- Non-calculator methods
- Types of number sequences
- Indices and roots

Proportions and Proportional Change
- Ratio and fractions
- Percentages and interest
- Probability

Expressions
- Manipulating expressions

Developing Algebra
- Representing solutions of equations and inequalities
- Simultaneous equations

YEAR 11

Examinations

Algebra
- Expanding and factorising
- Changing the subject
- Functions

Delving into Data
- Collecting, representing and interpreting data

Representations and Revision
- Probability
- Algebraic representation

Geometry
- Angles and bearings
- Working with circles
- Vectors

Reasoning with Number
- Numbers
- Using percentages
- Maths and money

Reasoning with Geometry
- Deduction
- Rotation and Translation
- Pythagoras' Theorem

Reasoning with Proportion
- Enlargement and similarity
- Solving ratio and proportion problems
- Rates

YEAR 10

Similarity
- Congruence, similarity and enlargement
- Trigonometry

Reasoning with Algebra
- Straight line graphs
- Forming and solving equations
- Testing conjectures

Reasoning with Data
- The data handling cycle
- Measures of location

Developing Geometry
- Angles in parallel lines and polygons
- Area of trapezia and circles
- Line symmetry and reflection

Developing Number
- Fractions and percentages
- Standard index form
- Number sense

Constructing in 2 and 3 Dimensions
- Three dimensional shapes
- Constructions and congruency

Algebraic Techniques
- Brackets, equations and inequalities
- Sequences
- Indices

YEAR 9

Fractional Thinking
- Addition and subtraction with fractions

Lines and Angles
- Constructing, measuring and using geometric notation
- Developing geometric reasoning

Reasoning with Number
- Developing number sense
- Sets and probability
- Prime numbers and proof

Proportional Reasoning
- Ratio and scale
- Multiplicative change
- Multiplying and dividing fractions

Directed Number
- Four operations with directed number

YEAR 8

Representations
- Working in the cartesian plane
- Representing Data
- Tables and Probability

Place Value and Proportion
- Place value
- Ordering integers and decimals
- Fraction, decimal and percentage equivalence

Algebraic Thinking
- Sequences
- Understand and use algebraic notation
- Equality and equivalence

Welcome to Limehurst Academy

YEAR 7

PRIMARY SCHOOL

Application of Number
- Solving problems with addition and subtraction
- Solving problems with multiplication and division
- Fractions and decimals of amounts