



Mathematics learning journey

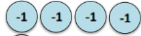
Lines and Angles

- Constructing, measuring and using geometric notation



Fractional Thinking

- Addition and subtraction with fractions



+1

Directed Number

- Four operations with directed number

Application of Number

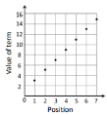
- Solving problems with addition and subtraction
- Multiplication and division
- Fractions and decimals of amounts

Place Value and Proportion

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

Algebraic Thinking

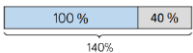
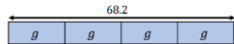
- Sequences
- Understand and use algebraic notation
- Equality and equivalence



Position	1	2	3	4
Term	3	5	7	9

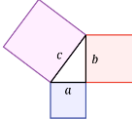
$$2(x + 4)$$

$$2x + 8$$



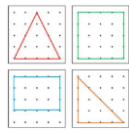
Reasoning with Number

- Developing number sense
- Sets and probability
- Prime numbers and proof



Reasoning with Geometry

- Deduction
- Rotation and Translation
- Pythagoras' Theorem



Reasoning with Number

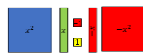
- Numbers
- Using percentages
- Maths and money

Constructing in 2 and 3 Dimensions

- Three dimensional shapes
- Constructions and congruency

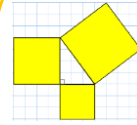
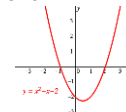
Reasoning with Algebra

- Straight line graphs
- Forming and solving equations
- Testing conjectures



Reasoning with Proportion

- Enlargement and similarity
- Solving ratio and proportion problems
- Rates



Similarity

- Congruence, similarity and enlargement
- Trigonometry

Developing Algebra

- Representing solutions of equations and inequalities
- Simultaneous equations

Geometry

- Angles and bearings
- Working with circles
- Vectors

Reasoning with Data

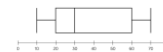
- The data handling cycle
- Measures of location

Developing Geometry

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

Proportions and Proportional Change

- Ratio and fractions
- Percentages and interest
- Probability



Revision and Communication

- Transforming and constructing
- Listing and describing
- Show that...

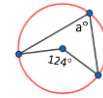
Representations

- Solving problems using graphs, tables and algebra



Reasoning

- Multiplicative
- Geometric
- Algebraic

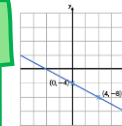


Algebra

- Expanding and factorising
- Changing the subject
- Functions

Graphs

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



Using Number

Delving into Data

Delving into Data

- Collecting, representing and interpreting data

Using Number

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



Examinations

Further Maths
A Level Maths
Core Maths

Support

- HEGARTY MATHS
- WHITE ROSE MATHS
- LUNCHTIME DROP-INS
- ASK YOUR TEACHER!

