

Maths Learning Journey



$$\frac{6}{10} + 0.3$$

Lines and Angles

- Constructing, measuring and using geometric notation

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

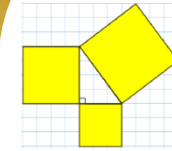
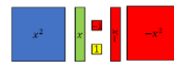
- Numbers
- Using percentages
- Maths and money

Constructing in 2 and 3 Dimensions

- Three dimensional shapes
- Constructions and congruency

Reasoning with Algebra

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



Similarity

- Congruence, similarity and enlargement
- Trigonometry

Developing Algebra

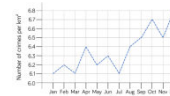
- Representing solutions of equations and inequalities
- Simultaneous equations

Geometry

- Angles and bearings
- Working with circles
- Vectors

Proportions and Proportional Change

- Ratio and fractions
- Percentages and interest
- Probability



Reasoning with Proportion

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

Representations

- Solving problems using graphs, tables and algebra

Reasoning

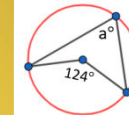
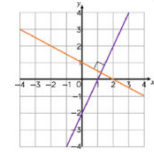
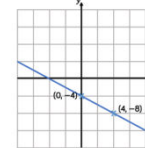
- Multiplicative
- Geometric
- Algebraic

Algebra

- Expanding and factorising
- Changing the subject
- Functions

Graphs

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



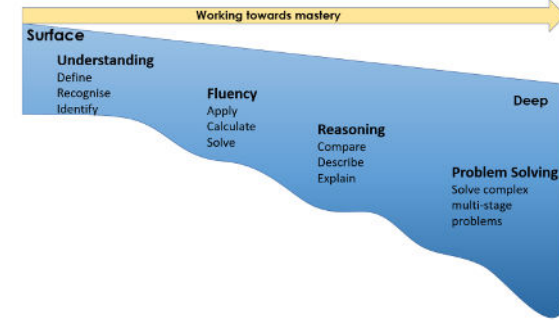
Revision and Communication

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

Examinations

GCSE
Functional Skills

Further Maths
A Level Maths
Core Maths



Fractional Thinking

- Addition and subtraction with fractions



Directed Number

- Four operations with directed number

Application of Number

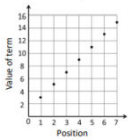
- Solving problems with addition and subtraction
- Multiplication and division
- Fractions and decimals of amounts

Place Value and Proportion

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

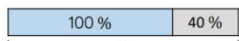
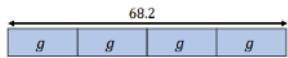
Algebraic Thinking

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



Position	1	2	3	4
Term	3	5	7	9

$$2(x + 4) \quad 2x + 8$$



140%

Proportional Reasoning

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

Representations

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

Algebraic Techniques

- Brackets, equations and inequalities
- Sequences
- Indices

Developing Number

- Fractions and percentages
- Standard index form
- Number sense

Developing Geometry

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

Reasoning with Data

- The data handling cycle
- Measures of location

Using Number

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

Delving into Data

- Collecting, representing and interpreting data



CORNFIELD SCHOOL

LEARNING FOR LIFE