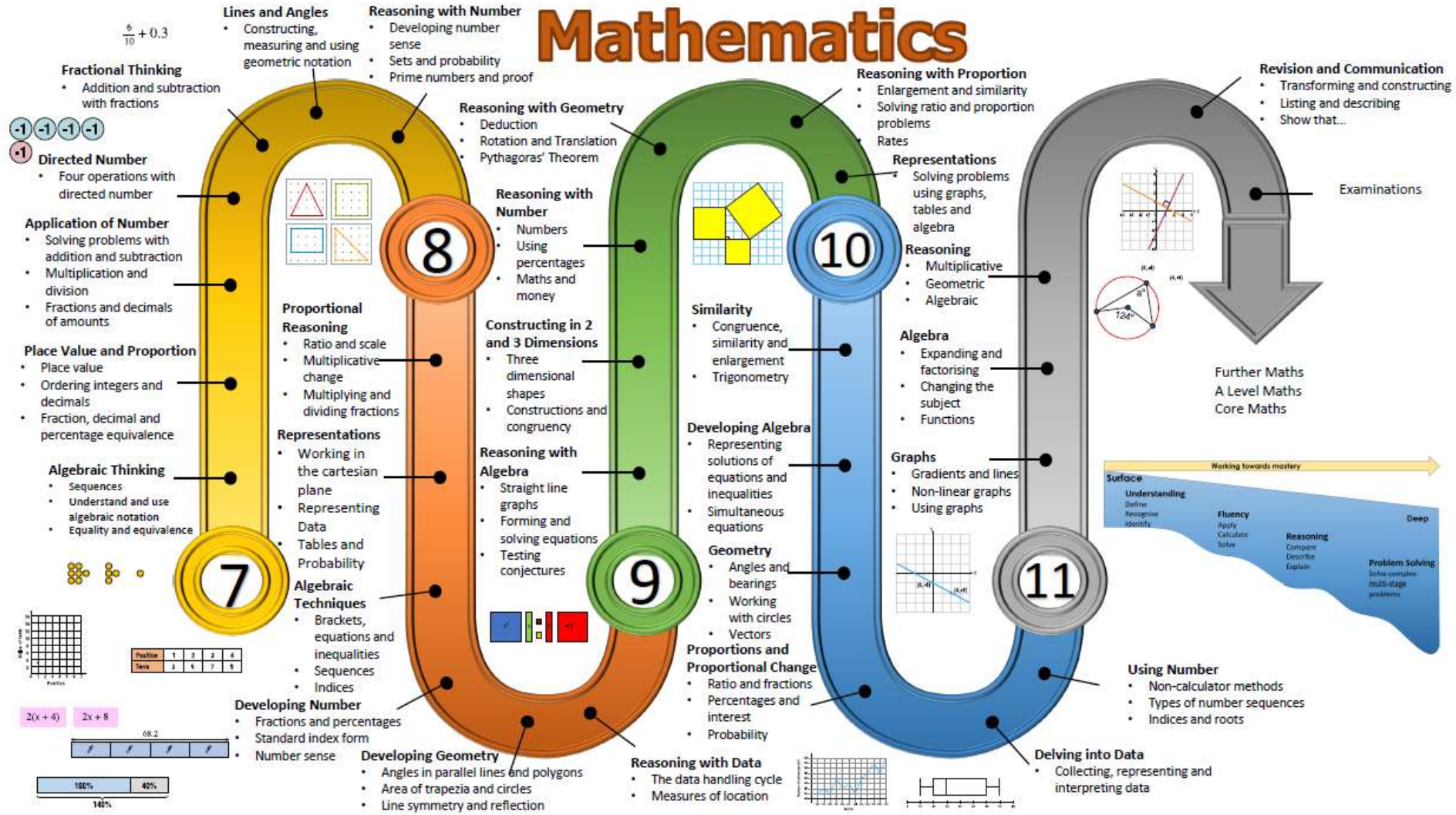


# Mathematics



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

### 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

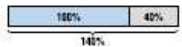
### Algebraic Thinking

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



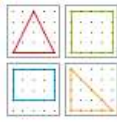
Position	1	2	3	4
Term	3	6	7	9

$2(x + 4)$     $2x + 8$



### Lines and Angles

- Constructing, measuring and using geometric notation



### 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 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

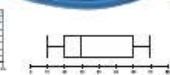
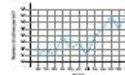
- Straight line graphs
- Forming and solving equations
- Testing conjectures



9

### Reasoning with Data

- The data handling cycle
- Measures of location



# Mathematics

### 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



11

### Delving into Data

- Collecting, representing and interpreting data

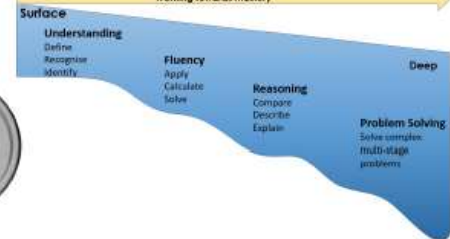
### Revision and Communication

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

Examinations

Further Maths  
A Level Maths  
Core Maths

Working towards mastery



### Using Number

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