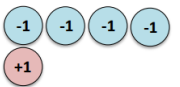




$$\frac{6}{10} + 0.3$$

Mathematics Journey

- Pattern Sniffing**
 - generate terms of a sequence from a term-to-term rule
- Solving Equations**
 - Solve linear equations
 - Use inverse operations

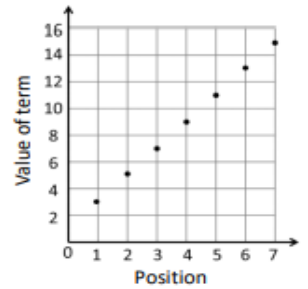


- Proportional Reasoning**
 - use ratio notation, including reduction to simplest form

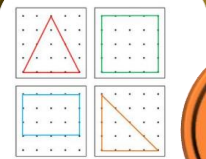
- Algebraic Proficiency**
 - Know the meaning of expression, term, formula, equation, function
 - Simplify an expression by collecting like terms

- Visualising and Constructing**
 - Identify rotational symmetry
 - Understand notation for lengths and angles

- Number Systems**
 - Calculating
 - Approximating and estimating
 - Counting and comparing



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- Number Systems**
 - Use concepts of prime numbers, lowest common multiple and highest common factor

- Visualising and Constructing**
 - Measure angles, interpret scale drawings /bearings

- Algebraic Proficiency**
 - Use algebraic notation
 - Simplify using laws of indices
 - Substitute into scientific formulae

- Exploring Fractions**
 - work interchangeably with decimals and their corresponding fractions

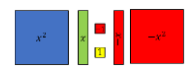
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- Proportional Reasoning**
 - solve problems involving direct and inverse proportion

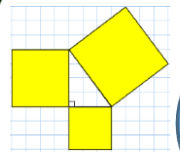
- Algebraic Proficiency**
 - simplify expressions by expanding binomials and factorising quadratic expressions

- Visualising and Constructing**
 - Solve problems involving loci

- Number Systems**
 - Calculate with roots and indices
 - Calculate with Standard Form



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- Number Systems**
 - calculate with roots and indices
 - calculate exactly with surds

- Visualising and Constructing**
 - identify, describe and construct similar shapes by enlargement

- Algebraic Proficiency**
 - simplify algebraic fractions

- Solving Equations**
 - solve linear equations with the unknown on both sides

- Pattern Sniffing**
 - calculate the nth term of linear sequences

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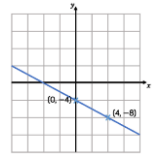
- Pattern Sniffing**
 - recognise Fibonacci sequences,
 - Nth term of Quadratic sequences

- Solving Equations**
 - solve linear inequalities
 - Represent on a number line

- Pattern Sniffing**
 - Solve problems involving geometric sequences

- Visualising and Constructing**
 - Find the enlargement with negative scale factor

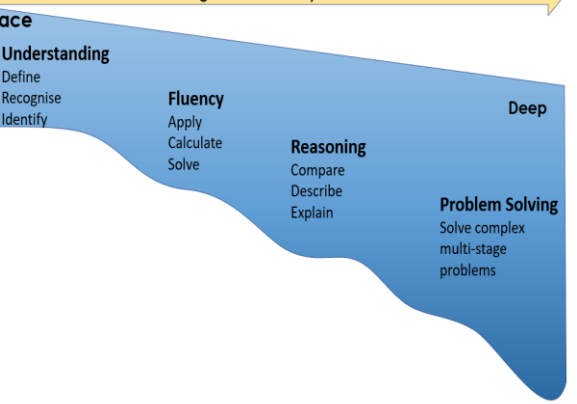
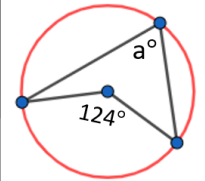
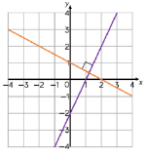
- Number Systems**
 - simplify surd expressions



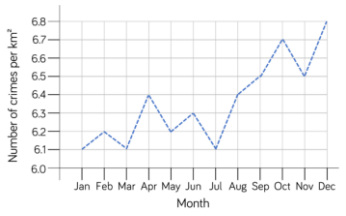
11

- Proportional Reasoning**
 - Solve problems combining fractions, percentages and ratio

- Pattern Sniffing**
 - Deduce the nth term of quadratic sequences



- Solving Equations**
 - solve two linear simultaneous equations



- Revision and Communication**
 - Transforming and constructing
 - Listing and describing
 - Show that...

Examinations

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



Further Maths
A Level Maths

