

| Foundation | Higher |
| :---: | :---: |
| Congruency and <br> similarity <br> Probability - <br> combined events | Graphs |
| Algebraic |  |
| fractions |  |

## Nothing new , all

 review - targeted lessons from individual andclass QLA

Rates - speed, distance and time, density, units, graphs Probability - one event, multiple events, tree diagrams
Algebraic representations graphs, simultaneous equations, graphs of inequalities


Maths and money - bills and statements, interest, taxes and problem solving
Deduction - angles revisited, reasoning, angles and algebra, geometric conjectures

Congruence, similarity and
enlargement - enlargement by a scale factor, identify and use similar shapes, area and volume of similar shapes, congruent triangle

- Trigonometry - right-angled triangles, Pythagoras' theorem, non rightangled triangles and 3D problems

Rotations and translations - symme
revisited, rotations and translations

Pythagoras' Theorem - right-angled triangles, finding sides, graphs, 3D
Enlargement and similarity - calculations, enlarging a shape, similarity
Ratio and proportion - direct proportion revisited, inverse proportion, ratio revisited, best buys


Number sense - rounding, estimating,
calculating, decimal places, context, units of area and volume
Angles - angles revisited, quadrilaterals, interior and exterior, proof, bisectors Area - triangles, quadrilaterals, circle, compound shapes $\quad$ - Two-way tables

Working in the Cartesian plane $-y=k x, y=x+a$, negative gradient, $y=m x+c$, non-linear graphs, midpoints of a line segment
Representing data - scatter graphs, types of data,
Tables and probability - sample spaces and

Brackets, equations and inequalities - forming expressions inc. brackets.
Brackets and equations, inequalities, unknowns on both sides, context Sequences - revisit prior knowledge, nth term
Indices - multiplying and dividing, powers of powers
Directed Number

- four operations, substitution, equations, order of operations, powers and roots Fractional thinking converting, addition and subtraction, algebra
$\longrightarrow$


Algebra


- Numbers and sequence primes, LCM, HCF,
nth term
- Indices and roots index laws, standard form - Manipulating expressions simplify, solve, algebraic fractions, proof

Number - estimation, rolem solving, fractions and surds
Percentages - percentages revisited, reverse percentages, problem solving, repeated percentag

Algebra
directions, scale drawings, bearings, Pythagoras and trigonometry

- Circles - area, circumference, arc length, sector area, circle theorems, volume and SA of 3D shapes
Vectors - notation, operations, parallel vectors, geometry
- Representing solutions of equations and inequalities solving, links to graphs, factorising
- Simultaneous equation graphically and algebraically, two linear, linear and quadrative
- Ratios and fractions - Compare, graphs, currency, algebra, area, volume, mixed ratios
- Percentages and interest - convert simple and compound interest, reverse percentages, growth and decay
- Probability - experimental, Venn diagrams, tree diagrams, conditional probability


Data \&
Probability
Probability

Three-dimensional shapes nets, plans and elevations, surface area and volume Constructions and congruency - constructions revisited, loci perpendiculars, bisectors
 change

Line Symmetry and reflection - horizontal, vertical and diagonal reflections
The data handling cycle - collecting data, lines and charts revisited and more, comparing data Measures of location - averages, from a table, comparing data

Number

Ratio and scale - representing, simplifying, solving and dividing, graphs Multiplicative change - direct proportion, conversions, similar shapes, scales, maps
Multiplying and dividing fractions - with integers and fractions, complex fractions

Construction and measuring - use of mathematical equipment, geometric notation, constructing shapes, pie charts
Geometric Reasoning - angles in triangles,
quadrilaterals and polygons, parallel lines, proof
 decimals, estimating
Sets and probability - sets, unions, intersection, probability
Primes and proof - factors, multiples, HCF and LCM, prime numbers and proof

Addition and subtraction - problem solving and standard form
Multiplication and division - powers of 10, mean
Fractions and percentages of amounts - inc. over 100\%

Number
7
KS3
Equality and equivalence - equations, collecting like terms, equivalence sign
Place value and ordering - ordering, range and median, rounding, significant figures
Fractions, decimals and percentages - converting, fractions and

Transition problem solving lessons Sequences - shapes, linear and non-linear
Algebraic notation - equations and expressions

