

Mathematics Curriculum Map

Accountancy • Mathematics • Further Maths • Physics • Chemistry • Engineering • Computer Science • DT • Geography

Analyst • Accountant • Engineering • Education • Mechanic • Marketing • Pilot • Medicine • Researcher • Scientist

Analysis • Attention to Detail • Communication • Accuracy • Problem solving • Resilience • Reasoning • Patience • Logical Thinking

[NRICH](#), [Tomrocksmaths \(Youtube\)](#), [The Oxford Online Maths Club](#)

Spring Term 1

- Sketching quadratics
- Perimeter, area and circles
- 3D forms and volume

Spring Term 2

- Changing the subject of formulae, algebraic fractions and rationalising surds
- Vectors and geometric proof
- Direct and inverse proportion

Exams

Next Steps

Mock Exams, Revision and targeted support

YEAR 11

Autumn Term

- Accuracy and bounds
- Solving quadratics and simultaneous equations
- Inequalities
- Similarity and congruence
- Data handling

Summer Term 2

- Constructions, loci and bearings
- Revision and mock exams

Summer Term 1

- Quadratic, cubic and other graphs
- Circle theorems
- Circle Geometry
- Transformations


Spring Term 2

- Graphs
- Coordinate geometry

Spring Term 1

- Ratio and proportion
- Polygons, angles and parallel lines
- Pythagoras' Theorem and trigonometry

Pythagoras' Theorem

$$a^2 + b^2 = c^2$$


Revision and targeted support

YEAR 10

Spring Term 1

- Numbers
- Using percentages
- Maths and money

Spring Term 2

- Deduction
- Rotation and translation

Summer Term 1

- Pythagoras' Theorem
- Enlargement and similarity
- Ratio and proportion

Summer Term 2


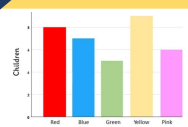

- Rates
- Probability
- Algebraic representation

Autumn Term 1

- Rounding
- Indices, roots, reciprocals
- Factors, multiples and primes
- Solving and rearranging equations

Autumn Term 2

- Sequences
- Averages and range
- Representing and interpreting data
- Fractions and percentages

YEAR 9

Autumn Term 2

- Three dimensional shapes
- Constructions and congruency

Autumn Term 1

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

Summer Term 2

- Symmetry and reflection
- Data handling
- Measures of locations

Summer Term 1

- Angles in parallel lines and polygons
- Area of trapezia and circles

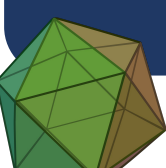

Spring Term 2

- Fractions and percentages
- Number sense

Spring Term 1

- Brackets, equations and inequalities
- Sequences
- Indices
- Standard Index Form

Revision and targeted support

YEAR 8

Summer Term 1

- Addition and subtractions of fractions
- Constructing and geometric notation
- Geometric reasoning

Summer Term 2

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

Autumn Term 1

- Ratio and Scale
- Multiplicative Change
- Multiplying and dividing fractions

Autumn Term 2

- Working in the Cartesian plan
- Representing data
- Probability



YEAR 7

Spring Term 2

- Fractions and percentages of amounts
- Four operations with directed number

Spring Term 1

- Solving problems with addition and subtraction
- Solving problems with multiplication and division

Autumn Term 2

- Place Value
- Fraction, decimal and percentage equivalence

Autumn Term 1

- Sequences
- Algebraic Notation
- Equality & Equivalence

We work with our primary school partners to make sure we get to know you and you get to know us and what we teach you links up and follows on from what you have learnt already