

Year 10 Scheme of Work Details

Foundation Scheme

This sets out the details of what you should study each term. Do bear in mind that your teacher may choose to mix these topics up or change how long they spend on topics in order to make sure that you understand everything as fully as you need to.

Term 1 (September to Christmas)	Term 2 (Christmas to Easter)	Term 3 (Easter to Summer)
<ul style="list-style-type: none"> • Measures – Units, Angles and Bearings. • Number and Operations – Integers, Decimals, Fractions. • Expressions and Formulae – Manipulating Expressions, Functions and Formulae. • Understanding Proportion – Proportional Relationships, Ratio. • Single Event Probability – Calculations, Bias and Expectation. • Categorical Data – Data types and Representations, Pie Charts. 	<ul style="list-style-type: none"> • Units, Scales and Proportions – Time and Distance, Compound Units, Scales. • Accurate and Inaccurate Diagrams – Symmetry, Angles, Scales with Bearings, Constructions & Loci, Similarity & Congruence. • Financial Calculations – Bills and Wages, Tax and VAT. • Equations, Inequalities and Identities – Equations, Quadratics, Inequalities. 	<ul style="list-style-type: none"> • Place Value and Rounding – Ordering and Rounding, Estimating, Errors. • Sequences – Rules and Patterns, nth terms, recurrence relations. • Percentages – Understanding and Calculating with Percentages. • Triangles – Area, Angles, Pythagoras, Trigonometry, Congruence. • Linear Graphs – Properties of Straight lines, Simultaneous equations.

Higher Scheme

This sets out the details of what you should study each term. Do bear in mind that your teacher may choose to mix these topics up or change how long they spend on topics in order to make sure that you understand everything as fully as you need to.

Term 1 (September to Christmas)	Term 2 (Christmas to Easter)	Term 3 (Easter to Summer)
<ul style="list-style-type: none"> • Understanding Proportions – Proportional Relationships, Ratio. • Polygons – Properties of quadrilaterals, Area of polygons, Angles in polygons. • Expressions and Formulae – Substitution, Expanding and Factorising, Functions and Formulae. • Understanding Products – Indices, Primes, Standard Form, Factorials. • Raw Numerical Data – Charts and Averages, Quartiles, Box Plots, Scattergraphs. • Units, Scales and Proportions – Converting Units, Compound Units, Scale Drawings. 	<ul style="list-style-type: none"> • Rounding, Estimation and the Limits of Accuracy – Rounding, Estimation, Upper and Lower Bounds. • Sequences - Rules and Patterns, nth terms, recurrence relations. • Percentages – Percentages, Percentage Changes. • Linear Graphs – Properties of Straight lines, Simultaneous equations. • Transformations and Vectors – Transformations, Vectors, Invariance. 	<ul style="list-style-type: none"> • Probability – Mutually Exclusive and Exhaustive Events, Systematic Lists, Possibility Spaces, Venn Diagrams, Tree Diagrams. • Polyhedra – 3-D Representation, Volume, Surface Area. • Equations, Inequalities and Identities – Equations, Inequalities, Simultaneous Equations. • Accurate and Inaccurate Diagrams – Constructions and Loci, Bearings, Similarity and Congruence, Circle Theorems. • Algebraic Proportion – Proportional relationships, The constant of proportionality, Using proportional relationships.

Higher+ Scheme

This sets out the details of what you should study each term. Do bear in mind that your teacher may choose to mix these topics up or change how long they spend on topics in order to make sure that you understand everything as fully as you need to.

Term 1 (September to Christmas)	Term 2 (Christmas to Easter)	Term 3 (Easter to Summer)
<ul style="list-style-type: none">• Rounding, Estimation and the Limits of Accuracy – Rounding, Estimation, Upper and Lower Bounds.• Understanding Proportions – Proportional Relationships, Ratio.• Transformations and Vectors – Transformations, Vectors, Invariance.• Expressions and Formulae – Substitution, Expanding and Factorising, Functions and Formulae.• Percentages – Percentages, Percentage Changes, Growth and Decay• Linear Graphs – Properties of Straight lines, Simultaneous equations.• Understanding Products – Indices, Primes, Standard Form, Factorials.	<ul style="list-style-type: none">• Right-Angled Pythagoras and Trigonometry – Pythagoras, Trigonometry.• Numerical Data – Sampling, Scattergraphs, Grouping, Averages from tables, Box plots, Cumulative Frequency, Histograms.• Sequences - Rules and Patterns, nth terms, recurrence relations.• Mensuration – Area, Surface Area, Volume, Similar Lengths Areas & Volumes, Frustums.	<ul style="list-style-type: none">• Rational and Irrational Numbers – Fractions, Surds, π• Equations, Inequalities and Identities – Equations, Inequalities, Simultaneous Equations.• Non-Linear Graphs – Drawing and Recognising, Quadratics, Simultaneous Equations, Circle Equations.• Number Problems – Upper and Lower bounds problems, Standard Form problems, Factorial problems.

Your teacher will be able to tell you whether you are following Foundation Scheme, Higher Scheme or Higher + Scheme.