Produced by Third Space Learning:
Note: topics in bold appear on both tiers and so may be overlap questions

OCR Foundation

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 1	• Four rules with integers • Money calculations • **Priority of operations** • Inverse operations • Understand number definitions and terms • Prime numbers • Fraction, decimals and percentages • Fraction of a quantity • Percentages of quantities • **Percentage change** • **Reverse percentages** • Listing FDP in order • Use of calculator • Standard form notation • Rounding • **Upper and lower bounds**	• Share into a ratio • Use a ratio	• Simplifying algebraic expressions • Factorising expressions • Linear equations • **Solving inequalities** • Function machines • **Quadratic graphs**	• Polygons (notation and terms) • **Properties of parallel lines** • Properties of solids • Column vectors • Time • **Compound units: rates** • Area of a rectangle • Area of a circle • Area of composite shapes • **Volume including cylinder, pyramid and sphere**	N/A	• Averages and range • **Scatter diagram and correlation** • Graphical misrepresentation • Frequency tree
Paper 2	• Arithmetic with positive and negative numbers • Division of a quantity • **Prime factors** • Fraction, decimals and percentages • Fractions of a quantity • **Fraction arithmetic** • Calculations with decimals • Percentage conversions • Percentage of a quantity • **Standard form calculations**	• **Simplify ratio** • Interpreting ratio • **Inverse proportion**	• **Multiplying out brackets** • **Formulate algebraic expressions** • Equations and identities • Solve linear equations • **Solve quadratic equations** • Rearrange equations • **Equation of a straight line**	• Construct and interpret angle bisector, line bisector and distance from a point. • **Transformations** • Money • **Bearings** • Area of a triangle • **Trigonometry** • **Exact trigonometric ratios**	• **Relative frequency** • Probability of equally likely events	• Bar chart and **Pie chart**
Paper 3	• Calculations with integers • Calculations with decimals • Prime numbers • Factors, multiples and LCM • Sequence rule to find a term • Understand number definitions and terms • Fractions, decimals and percentages • Fraction of a quantity • Fraction arithmetic • Percentage of a quantity • **Percentage change** • Powers of integers • Use of calculator	• Write in a ratio • Simplify a ratio • **Calculate with proportions** • Share in a ratio • **Direct proportion** • Simple interest • **Growth and decay problems** and graphs	• Simplify algebraic products and quotients • **Multiply out brackets** and simplify • Factorise quadratic expressions • Substitute into an expression • **Solve linear equation** • Solve simultaneous equations • Continue sequence • Quadratic graphs • Graphs of real-world contexts	• Symmetry • Circle terms • Properties of quadrilaterals • **Mass, Volume, Density** • Perimeters of triangles and quadrilaterals • **Volume and surface area: cuboid and prism**	• Understand the probability scale • Probability calculation • Listing outcomes and related probabilities • Tree diagram • **Calculation with the laws of probability**	• Averages

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OCR Higher

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 4	• Calculator use: quotients • **Priority of operations** • Percentage calculations • **Percentage change** • **Reverse percentages** • **Upper and lower bounds** • Standard form representation • Decimal, fractions and percentages equivalence	• Direct proportion • Solve ratio and proportion problems • Growth and decay problems	• Factorise quadratic expressions • Multiplying out brackets • Algebraic fractions • Substitute values into expressions • Formulate algebraic expressions • Use of brackets • **Solving inequalities** • Drawing and interpreting graphs • **Quadratic graphs** • Equations of circles • Algebraic proofs	• Properties of a triangle • Circle terms • Angles in polygons • **Properties of parallel lines** • Units of length and time • **Compound units: rates** • **Volume of pyramid and sphere** • Standard circle theorems • Circumference of a circle • Pythagoras' theorem	• Enumeration • Calculation with the laws of probability • Conditional probability	• Collecting data • **Scatter diagrams and outliers**
Paper 5	• **Fraction arithmetic** • Decimal arithmetic • Types of numbers • **Factors and multiples** • Decimals and fractions • Recurring decimals • Percentage calculations • Percentage change • Index notation • Powers of integers • Laws of indices • Surds and exact calculations • Rounding • Estimation • Standard form representation • **Standard form calculation**	• **Simplify ratios** • Use ratio • **Inverse proportion**	• Simplifying algebraic expressions • Formulate algebraic expressions • **Multiplying out brackets** • Rearranging formulae • Substitute values into expressions • Use of brackets • Use kinematics formulae • **Quadratic equations** • Approximate solutions by iteration • Equations of circles • Drawing and interpreting graphs • Distance/speed – time graphs • Parallel and perpendicular lines • **Equation of a line**	• Units of speed, distance and time • **Transformations** • Construct loci • Maps, **bearings** and scale drawings • Circumference of a circle and length of an arc • Area of a rectangle • **Trigonometry** • **Exact trigonometric ratios**	• **Relative frequency** • Equally likely outcomes and probability • Venn diagrams and sets • Conditional probability	• Graphical misrepresentation • **Pie chart** • Line graph and time series
Paper 6	• Types of numbers • Factors and multiples • **Percentage change** • Reverse percentages • Index notation • Laws of indices • Rounding • Standard form calculation	• Use ratio • **Calculate with proportions** • **Direct proportion** • **Growth and decay problems**	• Simplifying algebraic expressions • Completing the square • **Multiplying out brackets** • Formulate algebraic expressions • Rearranging formulae • Factorise expressions • Use of brackets • **Linear equations** • Quadratic equations • Graphical inequalities • Features and types of graphs • Trigonometric graphs • Transformations of graphs • Drawing and interpreting graphs • Solution set for inequalities	• Reasons for congruency • Length, area and volume scale factors of similar figures • Units of money, distance, time, **density, mass, volume** and area • Area of a triangle • **Volume and surface area: cuboid and prism** • Area and circumference of a circle • Trigonometry • Solving non-right-angled triangles	• Equally likely outcomes and probability • Sample spaces • Enumeration • **Calculation with the laws of probability** • Conditional probability	• Cumulative frequency