

Topics in **bold** appear on both tiers - some of these may include the overlap questions that appear on both papers.

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 1	<ul style="list-style-type: none"> • Money • Negative number • Order fractions, decimals, percentages • Fraction of an amount • Fraction arithmetic • Place value • Product of prime factors • Standard Form conversion and calculation • Estimation 	<ul style="list-style-type: none"> • Length conversion • Percentage of an amount • Percentage increase • Write as a ratio, share in a ratio • Direct proportion • Speed and density 	<ul style="list-style-type: none"> • Simplification • Substitute values • Linear inequality • Quadratic equation • Quadratic graph • Linear sequence 	<ul style="list-style-type: none"> • Reflection • Plan and elevation • Angles in a polygon • Volume of a cube and cylinder • Exact trig. values 	<ul style="list-style-type: none"> • Probability • Frequency tree 	<ul style="list-style-type: none"> • Pictogram • Bar chart • Stem and leaf diagram
Paper 2	<ul style="list-style-type: none"> • Money • Negative number • Fraction arithmetic • Order fractions, order integers • Multiples • Rounding • Error interval • Mathematical symbols 	<ul style="list-style-type: none"> • Mass, time, area • Scale drawing • Decimal to percentage • Percentage profit • Depreciation • Write as a ratio, use of ratio • Direct proportion • Currency conversion 	<ul style="list-style-type: none"> • Simplification • Expansion of bracket • Factorisation • Laws of indices • Linear simultaneous equations • Coordinates • Straight line graph • Functions: Number machines 	<ul style="list-style-type: none"> • Polygons • Circles • Parallel and perpendicular lines • Transformations • Angles in a triangle • Vertically opposite angles • Area of a rectangle 	<ul style="list-style-type: none"> • Tree diagram • Combined events 	<ul style="list-style-type: none"> • Interpret graph • Two-way table • Frequency table • Mode • Median • Mean
Paper 3	<ul style="list-style-type: none"> • Four operations • Negative number • Fraction of an amount • One amount as a fraction of another • Equivalent fractions • Factors • Lowest Common Multiple • Square root • Rounding • Calculator use 	<ul style="list-style-type: none"> • Time • Compound units • Scale drawing • Percentage to fraction • One quantity as a percentage of another • Percentage decrease • Reverse percentage • Write as a ratio • 1 : n form • Direct proportion • Average speed 	<ul style="list-style-type: none"> • Simplification • Expansion of bracket • Factorisation • Substitute values • Change subject of a formula • Forming an expression • Linear equation • Form an equation • Linear sequence 	<ul style="list-style-type: none"> • Triangle properties • Quadrilaterals • Triangular prism • Angle properties of parallel lines • Angles in a triangle • Vertically opposite angles • Bearings • Area of a triangle and trapezium • Pythagoras Theorem 	<ul style="list-style-type: none"> • Probability scale • Probability 	<ul style="list-style-type: none"> • Frequency polygon • Median • Range • Comparison of distributions