

AQA Maths Higher Topic List

Paper 1 - Number

	Topics	Clip Number	R	A	G
Arithmetic	Decimal	47 – 50			
Fractions	Arithmetic	66 – 70			
	Fraction of a number	77			
	Value as fraction of another	62			
	Recurring decimals as fractions	53, 54			
Percentage	Percentage as operator	84, 85, 86			
Indices	Laws of indices	102 – 110			
Standard form	Conversion	122, 123, 124			
	Calculation	125 – 128			
Surds	Simplification	113 – 119			

P1 - Algebra

	Topics	Clip Number	R	A	G
Equations	Of a straight line	205 – 216			
	Linear	176 – 189			
Manipulation	Identity	154			
	Simplification of algebraic fraction	159, 170, 172, 229			
	Simplification	156 – 159, 173, 174, 175			
	Factorisation of quadratic	223 – 228			
	Change subject	280 – 287			
Graphs	Recognise	205, 208, 209, 251, 257 299, 301 – 305			
	Sketch function	206 – 209, 251, 257, 298 – 305, 307 – 313, 878, 879, 898 – 902			
	Speed time	880 – 886, 890 – 893			
	Inequality region	273 – 276			
	Interpret	207, 208, 209, 299, 301, 252 – 257, 713, 874 – 877, 894, 896 – 902			
Sequences	Algebraic	196, 197, 198, 262, 263, 264			

P1 - Ratio

	Topics	Clip Number	R	A	G
Ratio	Simplest form	329			
	Proportion problem	339 – 342, 344, 345, 347, 348, 739 – 742			

P1 - Geometry and Measures

	Topics	Clip Number	R	A	G
Shape	Congruence	680 – 690			
	Prism	829			
	Faces	830			
	Exact trigonometric values	845			
Area and volume	Sector of a circle	544 – 547			
Vectors	Vector geometry	628 – 636			
Constructions	Region	674 – 679			

P1 - Statistics

Topics	Clip Number	R	A	G
Cumulative frequency	437 – 440			

P1 - Probability

Topics	Clip Number	R	A	G
Venn diagram	372 – 380, 383 – 388			
Tree diagram	361 – 367, 389, 390			
Expected value	355			
Independent events	358 – 363			

Paper 2 - Number

	Topics	Clip Number	R	A	G
Properties	Prime number	28			
	Cube number	100			
	Reciprocal	71			
	Decimal places	45, 46, 56			
	Bounds	137, 138, 139			
Fractions	Products	67, 68, 69			
Indices	Negative	104 – 110			

P2 - Algebra

	Topics	Clip Number	R	A	G
Equations	Of a circle	778, 779			
	Linear	176 – 189			
	Quadratic	230 – 234, 238, 239, 241, 242, 244, 245			
	Number line inequality	265, 266			
Manipulation	Factorisation of quadratic	223 – 228			
	Multiply out	158, 160 – 166			
	Completing the square	235, 236, 237			
Graphs	Coordinate problem	200, 824			
	Perpendicular lines	215, 216			
	Turning point	255, 256			
Functions	Inverse	295, 296, 297			
Sequences	Triangular number	261			

P2 - Ratio

	Topics	Clip Number	R	A	G
Ratio	Share into a ratio	332 – 335			
	On a line	200, 330, 331, 332			
Fraction	To percentage	76			
Conversions	Time	709, 710, 711			
Applications	Equation to percentage	176, 82, 83, 87, 89, 90, 97, 98			
	Rate of output	738, 896			
	Pressure	734 – 737			
Percentage	Percentage increase	90, 91, 92, 94, 96, 97, 98			
	Percentage decrease	90, 91, 92, 95, 96, 97			

P2 - Geometry and Measures

	Topics	Clip Number	R	A	G
Area and Volume	Compound shape	555, 558, 582, 591			
	Cone	576, 577, 587			
	Hemisphere	580, 581, 588			
	Volume scale factor	618 – 621			
Shape	Plan	837 – 844			
	Pythagoras	497 – 507			
Measures	Time	709, 710, 711			
Other	Geometric proof	628 – 636, 684 – 690			

P2 - Statistics

	Topics	Clip Number	R	A	G
	Estimation from sample	872, 873			
	Pie chart	427, 428, 429			
	Mean	405 – 408, 417, 418			

P2 - Probability

	Topics	Clip Number	R	A	G
	Relative frequency	356, 357			
	Expected value	355			
	Notation	351			

Paper 3 - Number

	Topics	Clip Number	R	A	G
Properties	Highest Common Factor	31, 32			
	Lowest Common Multiple	34, 35, 36			
	Error interval	774 – 777			
Decimals	Ordering	46			
	Recurring	53, 54			
Other	Product rule for counting	671, 672, 673			

P3 - Algebra

	Topics	Clip Number	R	A	G
Equations	Quadratic	230 – 234, 238, 239, 241, 242, 244, 245			
	Simultaneous linear/quadratic	190 – 195, 218, 219, 246, 259			
Manipulation	Simplification	156 – 159, 173, 174, 175			
	Triple bracket	166			
	Factorisation	168 – 171			
	Quadratic	223 – 229			
Graphs	Roots	253			
	Turning points	255, 256			
	Quadratic	251 – 257, 260			
	Exponential	302, 800 – 803			
Functions	Composite	293, 294, 297			
Sequences	Arithmetic	196, 197, 198			
	Geometric	264			
	n th term	198, 248, 249, 250			

P3 - Ratio

	Topics	Clip Number	R	A	G
Ratio	Share into a ratio	332 – 335			
Applications	Average speed	716 – 724			
	Population density	738			
Percentage	Percentage increase	90, 91, 92, 94, 96, 97, 98			
	Compound interest	94, 98, 771, 804, 806			

P3 - Geometry and Measures

	Topics	Clip Number	R	A	G
Area and Volume	Compound shape	555, 558, 582, 591			
	Cylinder	572 – 575, 586			
Shape	Quadrilateral	824, 825, 826			
	Circle theorems	594 – 606			
	Trigonometry	508 – 515			
	Sine/Cosine rule	521 – 525, 527 – 533			
Vectors	Vector arithmetic	623 – 626			
Other	Bearing	492 – 496, 531, 869			

P3 - Statistics

Topics	Clip Number	R	A	G
Two-way table	422, 423, 424			
Histogram	442 – 449			
Box plot	434, 435, 436, 440			
Median, quartiles	409, 411, 416			
Interquartile range	412			
Line of best fit	454			
Outlier	453			

P3 - Probability

Topics	Clip Number	R	A	G
Independent events	358 – 363			