

Higher Tier Paper 1 – No Calculator

Topic	Detail	Hegarty	Revised
Number (see Ratio)			
Arithmetic	Decimal	47-51	
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	84-87	
Indices	Laws of Indices	102-110	
Standard Form	Conversion	122-123	
	Calculation	125-127	
Surds	Simplification	115	
Algebra			
Equations	Of a straight line	206-213	
	Linear	177-186	
Manipulation	Identity	154	
	Simplification of algebraic fraction	170, 172, 229	
	Simplification	156-159	
	Factorisation of quadratic	223-228	
Graphs	Change subject	280-286	
	Recognise	299	
	Sketch function	257	
	Speed time	880-886	
	Inequality region	273-274	
Sequences	Interpret	894	
	Algebraic	*	
Ratio (see Number)			
Ratio	Simplest form	329	
	Proportion problem	339-342	
Geometry and Measures			
Shape	Congruence	680-689	
	Prism	570-571	
	Faces	830-834	
	Exact trigonometric values	845-853	
Area and Volume	Sector a of circle	546-547	
Vectors	Vector geometry	628-636	
Constructions	Region	679	
Statistics			
	Cumulative frequency	437-440	
Probability			
	Venn Diagram	372-380, 383-388, 391	
	Tree Diagram	361-363, 365	
	Expected value	355	
	Independent events	360-363	

*Please see your class teacher for support revising starred topics.

[Information in squared brackets is to help you identify the topic when revising]

Higher Tier Paper 2 – Calculator

Topic	Detail	Hegarty	Revised
Number (see Ratio)			
Properties	Prime number	28	
	Cube number	100	
	Reciprocal	71	
	Decimal places	56	
	Bounds	137-139	
Fractions	Products	67-69	
Indices	Negative	104	
Algebra			
Equations	Of a circle	778-779	
	Linear	177-186	
	Quadratic	230-233, 241-242	
	Number line inequality	265-266	
Manipulation	Factorisation of quadratic	223-228	
	Multiply out	160-165	
	Completing the square	235-237	
Graphs	Coordinate problem	199	
	Perpendicular lines	215-216	
	Turning point	255-256	
Functions	Inverse	295-296	
Sequences	Triangular number	261	
Ratio (see Number)			
Ratio	Share into a ratio	332-334	
	On a line	*	
Fraction	To percentage	75-76	
Conversions	Time	709-711	
Applications	Equation to percentage		
	Rate of output [other compound measures]	738, 755-756	
	Pressure	734-737	
Percentage	Percentage increase	88-90	
	Percentage decrease	88-90	
Geometry and measures			
Area and Volume	Compound shape	555, 582	
	Cone	576-577, 587	
	Hemisphere	580-581, 588	
	Volume scale factor	618-621	
Shape	Plan	837-844	
	Pythagoras	498-507	
Measures	Time	711	
Other	Geometric proof	*	
Statistics			
Estimation from sample [Random stratified sampling]		356	
Pie chart		427-429	
Mean		405-408, 417-418	
Probability			
Relative frequency		356-357	
Expected value		355	
Notation		387	

Higher Tier Paper 3 – Calculator

Topic	Detail	Hegarty	Revised
Number (see Ratio)			
Properties	Highest Common Factor	31-32	
	Lowest Common Multiple	34-36	
	Error interval	774-777	
Decimals	Ordering	46	
	Recurring [to/from fractions]	53-54	
Other	Product rule for counting	671-673	
Algebra			
Equations	Quadratic	230-233, 241-242	
	Simultaneous linear/quadratic	246	
Manipulation	Simplification	156-159, 161	
	Triple bracket	166	
	Factorisation	168-169	
	Quadratic	222-228, 235-237	
Graphs	Roots	253	
	Turning points	255-256	
	Quadratic	251-260	
	Exponential	302	
Functions	Composite	293-294	
Sequences	Arithmetic [Linear]	196-198	
	Geometric	264	
	n th term	198, 248-250	
Ratio (see Number)			
Ratio	Share into a ratio	332-334	
Applications	Average speed	716-723	
	Population density [other compound units]	738	
Percentages	Percentage increase	89-92	
	Compound interest	94	
Geometry and Measures			
Area and Volume	Compound shape	555, 582	
	Cylinder	572-575, 586	
Shape	Quadrilateral	560, 824-826	
	Circle theorems	594-606, 816-820	
	Trigonometry	508-515, 854-863	
	Sine/Cosine rule	521-525, 527-533	
Vectors	Vector arithmetic	625	
Other	Bearing	492-496	
Statistics			
	Two-way table	422-424	
	Histogram	442-449	
	Box plot	434-436, 440	
	Median, quartiles	411	
	Interquartile range	412	
	Line of best fit	454	
	Outlier	453	
Probability			
	Independent events	360-363	