

# Year 9 AP3 Foundation Learn Sheet

Paper 1 (Calculator)

Strand	Topic	R	A	G	Hegarty Clip
Number	Read and write positive integers				13
	Powers and roots				99, 100, 101
	Place value: multiplying and dividing by 10				15, 16
	Ordering fractions				60
	Percentages of amounts				84, 85, 86, 87
Algebra	Substitution				155, 780, 781
	Collecting like terms				156, 157
Geometry	Properties of 2D shapes				822, 823, 824, 825
	Line symmetry				827
	Calculating perimeter				549, 550, 551, 552
Probability and statistics	Collecting data, frequency tables				401, 402, 403
	Pictograms				426
	Mode				404, 415
	Probability of single events				351, 352, 353, 354

Paper 2 (Calculator)

Strand	Topic	R	A	G	Hegarty Clip
Number	Powers and roots				99, 100, 101
	Read and write positive integers				13
	Prime numbers, prime factorisation				28, 29, 30
	Working with money				747, 748, 749
Algebra	Forming and solving equations				176
	Formulae and substitution				155, 287, 279
Geometry	Angle on a line				477, 478
	Angles around a point				812, 813, 814, 479, 480
	Angles in a triangle				484, 485, 486, 487
	Properties of 3D shapes				829, 830, 831, 832
	Calculating area				554, 555, 556, 557, 558, 559
Statistics	Collecting data, frequency tables				401, 402, 403

## Useful Revision websites

<https://www.mathsgenie.co.uk/gcse.html>  
<https://www.onmaths.com/>  
<https://corbettmaths.com/>

<http://www.mrbartonmaths.com/>  
<http://studymaths.co.uk/>  
<http://hegartymaths.com>

# Year 9 AP3 Crossover Learn Sheet

Paper 1 (Calculator)					
Strand	Topic	R	A	G	Hegarty Clip
Number	Addition and subtraction of decimals				47
	Rounding				17, 56, 134
	Fraction problems				80
	Compound interest				94
	Error intervals				774, 775, 776
	Standard form				121, 122, 123, 124
Algebra	Linear equations				176, 177, 178, 179
	Factorising expressions				167, 168, 169, 170
	Plotting straight line graphs				205, 206, 207
	Collecting like terms				156, 157
	Changing the subject				280, 281, 282, 283
	Representing linear inequalities				265, 266, 267, 268
	Gradient				201, 202
	Index laws				173, 174
Ratio	Fractions and ratio				330
	Dividing in a ratio				332, 333, 334
Probability and statistics	Range				410, 414
	Median				409, 416
	Frequency trees				368, 369
	Venn diagrams				372, 373, 374, 375

Paper 2 (Calculator)						
Strand	Topic	R	A	G	Hegarty Clip	
Number	Addition and subtraction of fractions				65, 66	
	Fractions of amounts				62, 77	
	Simplifying fractions				59, 61	
	Money problems				752, 753, 754	
	Rounding				17, 56, 134	
	Rounding to significant figures				130	
	Fraction problems				80	
	Standard form				121, 122, 123	
Algebra	Linear equations				176, 177, 178	
	Collecting like terms				156, 157	
	Linear equations on graphs				217	
	Factorising expressions				167, 168, 169	
	Expanding brackets				160, 161	
	Solving linear inequalities				269, 270, 271	
	Index Laws				173, 174	
	Changing the subject				280, 281, 282	
	Ratio	Fractions and ratio				330
		Simplifying ratios				328, 329, 331
Probability and Statistics	Frequency tables				401, 402, 403	
	Mode				404, 415	
	Mean				405, 406, 407	
	Scatter graphs				453, 454	

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<http://www.mrbartonmaths.com/>  
<http://studymaths.co.uk/>  
<http://hegartymaths.com>

# Year 9 AP3 Higher Learn Sheet

Paper 1 (Calculator)

Strand	Topic	R	A	G	Hegarty Clip
Number	Money problems				752, 753, 754
	Compound interest				94
	Error intervals				774, 775, 776
	Standard form				121, 122, 123
Algebra	Linear equations				176, 177, 178
	Collecting like terms				156, 157
	Changing the subject				280, 281, 282
	Expanding brackets				160, 161
	Expanding triple brackets				166
	Solving linear inequalities				269, 270, 271
	Index laws				173, 174
	Dividing in a ratio				332, 333, 334
Ratio	Inverse proportion				347
	Compound units: pressure				734, 735, 736
Geometry	Compound units: speed				721, 722, 723
	Frequency tables				401, 402, 403
Statistics	Mode				404, 415
	Scatter graphs				453, 454
	Experimental probability				357
Probability	Probability trees				362, 363

Paper 2 (Calculator)

Strand	Topic	R	A	G	Hegarty Clip
Number	Standard form				121, 122, 123
	Error intervals				774, 775, 776
	Converting recurring decimals to fractions				53, 54
Algebra	Linear equations				176, 177, 178
	Factorising expressions				167, 168, 169
	Writing algebraic equations				152, 153, 155
	Representing linear inequalities				265, 266, 267
	Index laws				173, 174
	Changing the subject				280, 281, 282
	Quadratic equations: factorising				231, 232, 234
Geometry and measures	Angles on parallel lines				481, 482, 283
Probability	Frequency trees				368, 369
	Venn diagrams				372, 373, 374
	Probability trees				362, 363
Statistics	Range				410, 414
	Median				409, 416
	Mean from grouped frequency tables				418

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<http://studymaths.co.uk/>  
<http://hegartymaths.com>