HIGHER SCHEME - A & S GROUPS FOUNDATION - P/I/R/E GROUPS					
IN YEAR 9, STUDENT AT THE TOP END OF THE BAND COVER GREEN AND SOME YELLOW CONTENT. AT THE LOWER END OF THE BAND STUDENTS MAY ONLY COVER SOME OF THE GREEN CONTENT.	Old Grade	Numbered grade	GCSE Ref	Timings	
Section 1: Shape					
Properties of Triangles	G	1	<u>G4</u>		
Properties of Quadrilaterals	F	2	<u>07</u>		
Identifying Congruent and Similar Shapes	Е	3	<u>G5 (part)</u>		
Properties of Circles	G	1	<u>G9</u>	sks	
Drawing circles	G	1	<u>55</u>	4 weeks	
Line Symmetry	F	2	<u>G1 (part of)</u>	4	
Rotational Symmetry	F	2	<u>G1 (part of)</u>		
Recognising 3D Shapes	F	2	<u>G12</u>		
Isometric Drawing	E	3	<u>G13 (part of)</u>		
Loci and Construction	С	5	<u>G2</u>	sks	
Bearings, Scale Drawing and Maps	D D	4 4	<u>G15</u> <u>R2</u>	5 weeks	
Nets, Plans and Elevations	C	5	<u>G13 (part of)</u>		
Congruence and finding corresponding lengths in similar shapes		5	<u>619 (part or)</u>		
Identify congruent triangles		5	<u>G5</u>		
Section 2: Number					
Place value and writing numbers	G	1	<u>N2 (part)</u>		
Addition, Subtraction, Multiplication and Division with integers	F	2	<u>N2 (part)</u>		
Apply Systematic Listing Strategies		4	<u>N5</u>	S	
Rounding	E	3	<u>N15 (part)</u>	4 weeks	
Negative Numbers	E	3	<u>N2 (part)</u>	Ň	
Ordering decimals	E	3	<u>N1 (part)</u>	7	
Add, Subtract, Multiply & Divide Decimals	E	3	<u>N2 (part)</u>		
BIDMAS		4	<u>N3</u>		
Factors, multiples and primes, LCM and HCF	D	4	<u>N4</u>		
Squares and Cubes, calculate with roots and integer indices	D	4	<u>N2 (part), N7</u>		
Rounding and Estimation (to any number of significant figures)	С	5	<u>N14, N15 (part)</u>		

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Upper and lower bounds		6	<u>N15 (part), N16</u>	
Manipulating Decimals	D	4	<u>N2 (part)</u>	
Using a calculator	D	4	<u>5</u>	
Section 3: Algebra				
Understand variables, terms, equations, identities & expressions (understand the ≠ symbol	F	2	<u>N1 (part)</u>	
(not equal))			A3	S
Collecting Like Terms	E	3	A4 (part)	3 weeks
Basic algebra (using algebra notation)	E	3	<u>A1</u>	Š
Use of function machines		3	<u>A7</u>	
Substitution	C/D	4	<u>A2</u>	
Co-ordinates including solving geometrical problems	E	3	<u>A8</u>	-
			<u>G11</u>	weeks
Simplify expressions including index laws		4	<u>A4 (part)</u>	
Drawing straight line graphs including identifying parallel lines from an equation	С	4	<u>A9 (part)</u>	e M
Use gradients and intercepts		4	<u>A10</u>	
Finding the equation of a line given two points or one points and a given gradient		5	<u>A9 (part)</u>	
Use direct and inverse proportion graphically and algebraically		6	<u>R10</u>	
Equations, Identities and proof		6	<u>A6</u>	
Real life graphs	D	4		
Quadratic, Cubic & Reciprocal Graphs	B	6	<u>A14</u> <u>A12</u>	

Section 4: Sequences			
Generate terms of a sequence	3	<u>A23</u>	S
Recognise and use a square, triangular and Fibonacci sequences	4	<u>A24 (part)</u>	seks
Recognise and use nth term including quadratic sequences	4	<u>A24 (part)</u>	Š
Find the nth term of a linear sequence	5	<u>A25</u>	~

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Recognising geometric seqences where ratio is not a surd		6	<u>A24 (part)</u>	1 week
Section 5: Handling Data				
Using averages and range (understand what an outlier is)	E	3	<u>S4 (part)</u>	iks
When to use each type of average	Е	3	<u>S5</u>	2 weeks
Averages and Range from a frequency table	Е	3	<u>S4 (part)</u>	2 v
Collecting and Recording Data	Е	3	<u>S2 (part)</u>	S
Sampling (including the difference between a population and a sample)	D	4	<u>S1 (part)</u>	weeks
Limitations of sampling		4	<u>S1 (part)</u>	
Two way tables	C/D	5	<u>S1 (part)</u>	en e
Section 6: Algebra				
Expressions with powers	E	3	<u>N6</u>	ks
	E E	3	<u>N6</u> <u>A4 (part)</u>	veeks
Expressions with powers				3 weeks
Expressions with powers Expanding brackets (including double brackets)	Е	3	A4 (part)	m
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form	E E	3 3	<u>A4 (part)</u> <u>N9 (part)</u>	m
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising	E E C	3 3 5	<u>A4 (part)</u> <u>N9 (part)</u> <u>A4 (part)</u>	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1	E E C B	3 3 5 5	<u>A4 (part)</u> <u>N9 (part)</u> <u>A4 (part)</u> <u>A4 (part)</u>	m
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations	E E C B D	3 3 5 5 4	<u>A4 (part)</u> <u>N9 (part)</u> <u>A4 (part)</u> <u>A4 (part)</u> <u>A17</u>	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations Solving Inequalities	E E C B D	3 3 5 5 4 5	<u>A4 (part)</u> <u>N9 (part)</u> <u>A4 (part)</u> <u>A4 (part)</u> <u>A17</u> <u>A22</u>	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations Solving Inequalities Solving Quadratics	E E C B D	3 3 5 4 5 6	<u>A4 (part)</u> <u>N9 (part)</u> <u>A4 (part)</u> <u>A4 (part)</u> <u>A17</u> <u>A22</u> <u>A18</u>	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations Solving Inequalities Solving Quadratics Recognise the difference of two squares	E E C B D	3 3 5 4 5 6 6	A4 (part) N9 (part) A4 (part) A4 (part) A4 (part) A4 (part) A4 (part) A22 A18 A4 (part)	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations Solving Inequalities Solving Quadratics Recognise the difference of two squares Roots, Intercepts, turning points of quadratics	E E C B D	3 3 5 4 5 6 6 6	A4 (part) N9 (part) A4 (part) A4 (part) A4 (part) A17 A22 A18 A4 (part) Sequences	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations Solving Inequalities Solving Quadratics Recognise the difference of two squares Roots, Intercepts, turning points of quadratics Calculations using standard form	E E C B D	3 3 5 4 5 6 6 6 6 6 6	A4 (part) N9 (part) A4 (part) A4 (part) A4 (part) A4 (part) A17 A22 A18 A4 (part) Sequences N9 (part)	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations Solving Inequalities Solving Quadratics Recognise the difference of two squares Roots, Intercepts, turning points of quadratics Calculations using standard form Deriving & solving simultaneous equations algebraically & graphically	E E D C	3 3 5 4 5 6 6 6 6 6 6	A4 (part) N9 (part) A4 (part) A4 (part) A4 (part) A4 (part) A17 A22 A18 A4 (part) Sequences N9 (part) A19 (part)	weeks 3
Expressions with powers Expanding brackets (including double brackets) Writing numbers in standard form Factorising Factorising quadratics where the coefficient of x ² is 1 Solving Equations Solving Inequalities Solving Quadratics Recognise the difference of two squares Roots, Intercepts, turning points of quadratics Calculations using standard form Deriving & solving simultaneous equations algebraically & graphically Using Formulae	E E D C C	3 3 5 4 5 6 6 6 6 6 6 6 6 5	A4 (part) N9 (part) A4 (part) A4 (part) A4 (part) A17 A22 A18 A4 (part) Sequences N9 (part) A4 (part) A22	weeks 3

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Ordering Fractions	E	3	<u>N1 (part)</u>	ks
Improper Fractions	Е	3	<u>N2 (part)</u>	2 weeks
Express one quantity as a fraction of another		3	<u>R3</u>	2
Multiplication and Division of fractions	D	4	<u>N2 (part)</u>	
Addition and Subtraction of fractions	D	4	<u>N2 (part)</u>	
Calculate exactly with fractions and multiples of π		4	<u>N8</u>	sks
Work interchangeably with terminating decimals and their corresponding fractions		4	<u>N10</u>	3 weeks
Converting between FDP	D	4	<u>N12</u>	
Section 8: Number				
Working out the percentage of a quantity	Е	3	<u>R9</u>	1 week
Working out the percentage of a quantity (using a calc)	D	4	_	1 w
Percentage Increase and Decrease	C/D	5		S
Writing one number as a percentage of another	C/D	5	PO	2 weeks
Calculating percentage change (profit & loss)		5	<u>R9</u>	Ň
Reverse Percentages		5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Solve problems involving compound interest		6	24.6	
Set up, solve and interpret growth and decay problems		6	<u>R16</u>	
Section 9: Data Handling				
Pictograms	G	1	<u>S2 (part)</u>	S
Pie Charts	D	4	<u>S2 (part)</u>	sek
Bar Charts	Е	3	<u>S2 (part)</u>	3 weeks
Composite Bar charts	D	4	<u>S2 (part)</u>	
Frequency Diagrams	D	4	<u>S2 (part)</u>	eks
Scatter graphs & Correlation (know that correlation does not imply causality)		4	<u>S6</u>	2 weeks
Section 10: ShapE				
Naming angles	G	1	<u>G14 (part)</u>	

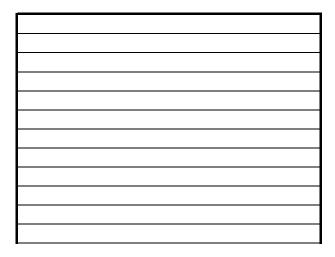
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Measuring angles	F	2	<u>G14 (part)</u>	ks
Angles on straight lines and around a point	Е	3	<u>G3 (part)</u>	3 weeks
Angles in triangles and quadrilaterals	Е	3	<u>G3 (part)</u>	- ^ m
Derive angles in a triangle		4	<u>G3 (part)</u>	
Angles on parallel lines	D	4	<u>G1 (part)</u>	S
Angles in polygons (Use the standard convention for labelling sides and angles of				sek
polygons)	D	4	<u>G1 (part)</u>	2 weeks
Tessellations (including angles at a point)	C/D	4	<u>G1 (part)</u>	7
<u>-</u>				
Section 11: Number				
Writing numbers in a ratio	F	2	<u>R4 (part)</u>	
Simplifying ratio	E	3	<u>R4 (part)</u>	
Dividing in a given ratio	C/D	4	<u>R5</u>	
Identify and work with fractions in ratio problems		5	<u>N11</u>	3 weeks
Proportion (eg recipes)	С	5	<u>R7</u>	Ň
Express a multiplicative relationship between two quantities as a ratio or a fraction				m
(equivalent ratios)		5	<u>R6</u>	
Ratio problems (ratio as a linear function)		5	<u>R8</u>	
Compare lengths, areas and volumes using ratio notation; make links to similarity and				
scale factors		5	<u>R12</u>	ks
		6	<u>R13</u>	2 weeks
Direct and Inverse proportion equations including concept of inverse proportion				
Direct and Inverse proportion equations including concept of inverse proportion Interpret gradient as a rate of change and graphs that illustrate direct and inverse				2
		6	<u>R14</u>	2
Interpret gradient as a rate of change and graphs that illustrate direct and inverse		6	<u>R14</u>	2
Interpret gradient as a rate of change and graphs that illustrate direct and inverse proportion Section 12: Shape	С	6	<u>R14</u> <u>G6 (part)</u>	2
Interpret gradient as a rate of change and graphs that illustrate direct and inverse proportion	С			7
Interpret gradient as a rate of change and graphs that illustrate direct and inverse proportion Section 12: Shape	C		<u>G6 (part)</u>	7

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Section 13: Data Handling				
Calculating simple probabilities	E	3	<u>P1</u>	
Apply ideas of randomness, fairness and equally likely events to calculate expected				S
outcomes of multiple future experiments [S]		4	<u>P2</u>	weeks
Mutually exclusive events	D	4	<u>P4</u>	Ň
Listing outcomes	D	4	<u>P7</u>	
Estimating probability	D	4	<u>P3, P5</u>	
Tree Diagrams		6	<u>P8</u>	
Venn Diagrams		6	<u>P6</u>	
Section 14: Shape				
Perimeter & Area including compound shapes	-	2	<u>G14 (part), G16</u>	
	E	3	(part)	eks
Reading Scales	E	3	<u>N13</u>	3 weeks
Speed and Density calculations (including calculating pressure)	E	3	<u>R1, R11</u>	ε
Volume and surface area of prisms	B/C		<u>G16 (part)</u>	
Circumference and Area of a circle (using multiples of π)	C/D	4	<u>G17</u>	
Arc length and area of a sector Transformations (including fractional scale fasters)	6	6	<u>618</u>	
Transformations (including fractional scale factors)	C	5	<u>67</u>	
Describe translations as 2D vectors		5	<u>624</u>	
Vectors		6	<u>625</u>	

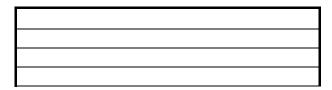
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