HIGHER-A & S GROUPS FOUNDATION	ON-P/I/R/	E GROUPS	<u>S</u>		
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HALF-TERM 1:Section 1: Geometry					
2D and 3D shapes	D	4	<u>G12, G1</u>	include conventional terms and notation	
Quadrilaterals	D	4	<u>G4</u>		
Symmetry of 2D shapes	D	4	G1 (part)		
Area and perimeter of 2D shapes	D	4	G14, G16 (part), G17	include compound shapes	
Properties of circles	D	4	<u>G9</u>		
Area and Circumference of a circle	С	5	<u>G17 (part)</u>	include compound shapes	
Volume of a prism	D/C	5	<u>G16</u>		
Surface area of a prism	C/B	6	<u>G17</u>		
Isometric Drawing, including plans and elevations	С	5	<u>G13</u>		
Loci and Construction	C/B	6	<u>G2</u>		
Bearings, Scale Drawings and Maps	C/B	6	<u>G15</u> <u>R2</u>		
Harder Volumes	A/A*	8	G16, G17 (part)		
Congruency and Similarity	A/A*	8	<u>G19, G5</u>		
Area of a sector and arc length	A/A*	8	<u>G18</u>		UNIT GROW ASSESSMENT
HALF-TERM 1:Section 2: Number				_	
Order positive and negative integers, decimals and fractions, use symbols	C/D	5	<u>N1</u>		
Apply the four operations, using formal written methods, to both integers and decimals		5	N2 (part)		
Apply systematics listing strategies		4	<u>N4</u>		
Prime Factors, LCM, HCF, prime factorisation	C/D	5	<u>N4</u>		
Squares, cubes and index notation	C/D	5	<u>N6</u>		
BIDMAS	D	4	N2 (part)		
Converting between FDP	D	4	N10 (first part)		
Rounding and Estimation	C/D	5	N14, N15 (first part)		
Indices, including fraction and negative powers	В	6	<u>N7</u>		
Standard Form including the 4 operations	В	6	<u>N9</u>		
Surds - simplifying a nd rationalising the denominator and working with multiples of $\boldsymbol{\pi}$	А	7	<u>N8</u>		
Recurring decimals to fractions (and vice versa)	A/A*	8	N10 (last part)		
Upper and Lower Bounds (Use inequality notation to specify error intervals due to rounding)	A/A*	8	N15 (last part), N16		

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HALF-TERM 2:Section 3: Algebra	•	<u> </u>		•	-
Basic Algebra	D	4	<u>A1</u>		
Collecting Like Terms	D/C	5	<u>A4 (part)</u>		
Substitution	D/C	5	<u>A2</u>		
expanding a single bracket	D	4	A4 (part)		
Coordinates in all four quadrants		4	<u>A8</u>	Solve geometrical problems on coordinate axes G11	
Prawing Graphs, including quadratic	D-B	4 to 6	<u>A12 (part)</u>		
/=mx + c, parallel and perpendicular lines (the equation of a linethrough two points or through one point with given gradient)	В	6	<u>A9, A10</u>		
Cubic, reciprocal and exponential graphs	Α	7	<u>A12 (part)</u>		
Recognise equation of a circle with centre at the origin; find the equation of a angent to a circle at a given point		8	<u>A16</u>		
nterpret areas under graphs and gradients of graphs in real-life contexts		7	<u>A15</u>		UNIT GROW ASSESSMENT
HALF-TERM 2:Section 4: Algebra - Sequences					
Recognise and use a square, triangular and Fibonacci sequences		4	<u>A24 (part)</u>		
Recognise and use nth term including quadratic sequences		4	<u>A24 (part)</u>		
ind the nth term of a linear sequence		5	A25 (first part)		
oth term of a quadratic		6	A25 (last part)		
Recognising geometric seqences where ratio is not a surd		6	A24 (last part)		
Recognising geometric seqences where ratio is a surd  Using general iterative processes		8	<u>A24 (last part)</u> <u>A23</u>	Generating from term to term or position to term - wrong place?	UNIT GROW ASSESSMENT
HALF-TERM 2:Section 5: Statistics					
Using averages and range (consider outliers when calculating range)	C/D	5	<u>\$4</u>		
When to use each type of average	С	5	<u>S5</u>		
Averages and Range from a frequency table	С	5	<u>\$4</u>		
Quartiles and Interquartile Range	В	6	<u>\$4</u>		
Collecting and Recording Data	D	4	S2 (part)		
Sampling (including the limitations of sampling)	C/B	5	<u>S1</u>		
Two way tables	С	5	S2 (part)		UNIT GROW ASSESSMENT

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HALF-TERM 3:Section 6: Algebra				_	
anguage of algebra- equations, identities, expressions, formulae		4	<u>A3, A6, A7</u>		
Expanding double brackets	D	4	A4 (part)		
actorising	B-D	4 to 6	<u>A4 (part)</u>		
Solving Equations (understand the ≠ symbol (not equal))	B-D	4 to 6	<u>A17 (part)</u>	include finding approximate solutions from a graph	
Solving Inequalities	С-В	5	A22 (part)	Solutions from a graph	
	C/D	5	<u>A21</u>		
Generating and Using Formulae	C/D		<u>A5</u>		
Fraction and Negative Powers with Algebra	Α	7	A4 (part)		
Rearranging Formulae	C/B	5	<u>A5</u>		
Simultaneous Equations	В	6	<u>A19 (part)</u>	formula o	
Factorising and Solving Quadratics	В	6	A18 (part), A4	include finding approximate solutions from a graph	
Factorising and Solving Quadratics eg 3x <sup>2</sup> +	Α	7	A18 (part)		
Complete the square (Locate turning point of quadratic functions by completing the square)	A/A*	8	<u>A11</u> A18 (part)		
Quadratic Formula	A/A*	8	A18 (part)		
Graphical Inequalities	В	6	A22 (part)	include set notation	
Simultaneous Equations with curves and circles	A/A*	8	A19 (part)		
Solving Simultaneous Equations graphically	A/B	6	<u>A19 (part)</u>		
Solving Quadratic Inequalities		7	<u>A22 (part)</u>	and linear inequalities in two	UNIT GROW ASSESSMENT
HALF-TERM 3: Section 7: Number					
Express one quantity as fraction of another		3	<u>R6</u>		
Finding a fraction of an amount	D	4	N2 (part)		
Additon and Subtraction of Fractions	С	5	N2 (part)		
Multiplication and Division of Fractions	С	5	N2 (part)		
Mixed Numbers	В	6	N2 (part)		
Algebraic Fractions	A/A*	8	<u>A4 (part)</u>		
Proof	A*	8	<u>G6</u>		
1001			<u>A6 (part)</u>		UNIT GROW ASSESSMENT

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HALF-TERM 4:Section 8: Number (and Ratio)					
Working out the percentage of a quantity (calc & non-calc)	С	5	<u>R9 (part)</u>	include all of this section except reverse	
Percentage Increase and Decrease	C/B	5	<u>R9 (part)</u>	percentages	
Compound interest	В	6	<u>R16 (part)</u>		
Reverse percentages	В	6	<u>R9 (part)</u>		
Set up, solve and interpret growth and decay problems		6	<u>R16 (part)</u>	work with general iterative processes	UNIT GROW ASSESSMENT
HALF-TERM 4: Section 9: Statistics					-
Pie Charts	D	3	<u>S2 (part)</u>		
Bar Charts	D	4	<u>S2 (part)</u>		
Pictograms		3	<u>S2 (part)</u>		
Vertical Line charts		3	<u>S2 (part)</u>		
Scatter graphs & Correlation (know that correlation does not imply causality)	С	4	<u>\$6</u>		
Comparing Data	В	5	<u>S5</u>		
Time Series tables and graphs		6	<u>S2 (part)</u>		
Cumulative Frequency & Box Plots (& comparing)	В	6	<u>S3</u>		
Histograms	Α	7	<u>S3</u>		UNIT GROW ASSESSMENT
HALF-TERM 4:Section 10: Geometry					
Angles in triangles and quadrilaterals (Use the standard convention for labelling sides and angles of polygons)	D	4	<u>G1, G3 (part)</u>		
Derive angles in a triangle		4	G3 (part)		
Angles in Polygons (Use the standard convention for labelling sides and angles of polygons)	С	5	G1, G3 (part)		
Angles on parallel lines	С	5	G3 (part)		
Circle Theorems (prove the circle theorems)	В	6	<u>G10</u>		UNIT GROW ASSESSMENT

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HALF-TERM 5:Section 11: Ratio							
Writing and Simplifying Ratios	D	4	<u>R4, R12</u>	include comparing lengths, areas and volumes using ratio notation			
Ratio Problems (ratio as a linear function)	С	5	<u>R8</u>	include identify and work with fractions in ratio problems (N11)			
Dividing in a given ratio	С	5	<u>R5</u>				
Proportion (eg recipes)	С	5	<u>R5, R7</u>				
Direct and Inverse Proportion	В	6	<u>R10, 13, 14</u>	include interpretting gradient as rate of change and interpretting proportion graphs			
interpret the gradient at a point on a curve as the instantaneous rate of change		8	<u>R15</u>		UNIT GROW ASSESSMENT		
HALF-TERM 5:Section 12: Geometry							
Pythagoras	С	5	<u>G20 (part)</u>				
Trigonometry missing side and angle (know the exact values of sin, cos and tan 0, 30, 45, 60 and 90 degrees)	В	6	G20 (part), G21				
3D Pythagoras and Trigonometry	Α	7	<u>G20 (part)</u>				
Sine Rule, Cosine Rule and ½absinC	A*	8	<u>G22</u>		UNIT GROW ASSESSMENT		
HALF-TERM 5:Section 13: Probability							
Probability experiments, frequency trees outcomes of multiple future experiments		5	<u>P1, P2</u>				
Calculating simple probabilities, including mutually exclusive (Use Venn diagrams)	C/D	5	P4, P6 (part)	include probability spaces			
Listing outcomes	C/D	5	<u>P6 (part), P7</u>				
Estimating probability	С	5	<u>P3, P5</u>				
Tree Diagrams	В	6	<u>P6 (part), P8</u>				
Conditional probability	Α	7	<u>P9</u>		UNIT GROW ASSESSMENT		

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IALF-TERM 6:Section 14: Geometry							
Reflection	C/D	5					
Rotation	С	5					
Translation	С	5	<u>G7</u>				
<u>Enlargement</u>	C/B	5					
Describing Transformations	C/B	5		include G8 as well			
Sketch y = sin x, cos x, tan x		7	<u>A12 (part)</u>				
Transformations of f(x)	A*	8	A13, G24 (leads onto next part)		UNIT GROW ASSESSMENT		
HALF-TERM 6:Section 15: Geometry							
Vectors and vector notation	A*	8	<u>G24</u>				
Magnitude of a vector and addition of vectors	A*	8	<u>G25</u>				
Parallel Vectors and solving geometric problems	A*	8	<u>G25</u>		UNIT GROW ASSESSMENT		
HALF-TERM 6:Section 16: Ratio -Compound Measures							
Use standard units		3	<u>N13</u>				
			<u>G14</u>				
Speed		4	R1 (part), R11 (part)				
Conversion between metric units (cm <sup>3</sup> to I)		4	<u>, ,, ,, ,, ,, ,</u>				
Density		5	R1 (part), R11 (part)				
Rates of pay and pressure		6	R1 (part), R11 (part)				
Real Life Graphs including reciprocal, exponential and suvat		7	<u>A14</u>		UNIT GROW ASSESSMENT		