



Achievement Cycle Overview

Curriculum: Mathematics

**Excellence.
No Excuses.**

Year	AC1	AC2	AC3	AC4
7	<p><u>Topic Overview:</u> 1- Number 1 (2) 4 - Algebra 1 (2) 3 - Stats (2) 16 - 2d 3d shape (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> N1, N2, N15, A1, S2, G1</p>	<p><u>Topic Overview:</u> 2- Number 2 (2) 5 - Algebra 2 (2) 13 - Length, area, volume, similarity (2) 15 – Angles (2) <u>NC links:</u>Following KS3 NC <u>GCSE Links:</u>N4 (Primes, factors, multiples), A17, G16, G3</p>	<p><u>Topic Overview:</u> 11 – FDP (3) 7 - Algebra 3 (3) 9 – Probability (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> N10, A8, G11, P3,P4,</p>	<p><u>Topic Overview:</u> 8 – Transformations (2) 6 – Sequences (2) 10 - Ratio and proportion (2) 12 - Units and compound measures (2) <u>NC links:</u>Following KS3 NC <u>GCSE Links:</u>G7, A23, R4,R7, G14</p>
8	<p><u>Topic Overview:</u> 1- Number 1 (2) 4 - Algebra 1 (2) 3 - Stats (2) 16 - 2d 3d shape (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> Content from prev years +, N15, N3, A2, S6, G12</p>	<p><u>Topic Overview:</u> 2- Number 2 (2) 5 - Algebra 2 (2) 13 - Length, area, volume, similarity (2) 15 – Angles (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> Content from prev years +, N4 (LCM,HCF), A5, G5, G4</p>	<p><u>Topic Overview:</u> 11 – FDP (3) 7 - Algebra 3 (3) 9 – Probability (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> Content from prev years + N12, A10, P2,P7,</p>	<p><u>Topic Overview:</u> 8 – Transformations (2) 6 – Sequences (2) 10 - Ratio and proportion (2) 12 - Units and compound measures (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> Content from prev years + G7, A25, N11, R5,R6, N13</p>
9	<p><u>Topic Overview:</u> 1- Number 1 (2) 4 - Algebra 1 (2) 3 - Stats (2) 16 - 2d 3d shape (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> Content from prev years + N14, A4, S4 (KS3), G15</p>	<p><u>Topic Overview:</u> 2- Number 2 (2) 5 - Algebra 2 (2) 13 - Length, area, volume, similarity (2) 15 – Angles (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> Content from prev years +, N4 (Prime factorisation), A21, G17 ,G3, G6</p>	<p><u>Topic Overview:</u> 11 – FDP (2) 7 - Algebra 3 (2) 9 – Probability (2) 14 – Pythag and Trig (2) <u>NC links:</u> KS3 NC <u>GCSE Links:</u> Content from prev years + N12, A9, P1, G20</p>	<p><u>Topic Overview:</u> 8 – Transformations (2) 6 – Sequences (2) 10 - Ratio and proportion (2) 12 - Units and compound measures (2) <u>NC links:</u> Following KS3 NC <u>GCSE Links:</u> Content from prev years + , G7, A25, R8, R10, R2, R1,R11</p>
10	<p><u>Topic Overview:</u> 1- Number 1 (2) 4 - Algebra 1 (2) 3 - Stats (2) 16 - 2d 3d shape (2) <u>NC links:</u> KS3 + Limits of accuracy, Terms for expression, equation, identity, formula, Box plots, quartiles, Stats to describe population, bearings, plans and elevations, bearings <u>GCSE Links:</u> Content from prev years +, N16 (Higher Bounds), A3,A7, S1, S4, S5, S6, G2, G13, G15,</p>	<p><u>Topic Overview:</u> 2- Number 2 (2) 5 - Algebra 2 (2) 13 - Length, area, volume, similarity (2) 15 – Angles (2) •<u>NC links:</u> KS3 + , Listing strategies, estimate roots + powers, Indices, Standard form, product rule for counting, derive an equation, solve quadratic, quadratic characteristics, cubic, circle language, circle theorems, <u>GCSE Links:</u> Content from prev years +, N5, N6, N7, N9, A18,A19, A21, G18, G17, G9,G10</p>	<p><u>Topic Overview:</u> 11 – FDP (2) 7 - Algebra 3 (2) 9 – Probability (2) 14 – Pythag and Trig (2) <u>NC links:</u> KS3+, Recurring decimals, growth and decay, compound interest, 3D pythag +trig, sine and cosine rule, area of any. Triangle, eqn circle, exact values, <u>GCSE Links:</u>Content from prev years +, N10, R16,R3,R9, A11,A12, A16, P5,P6,P8,P9, G20,G21, G22, G23</p>	<p><u>Topic Overview:</u> 8 – Transformations (2) 6 – Sequences (2) 10 - Ratio and proportion (2) 12 - Units and compound measures (2) <u>NC links:</u> KS3+ , Vectors, Invariance, special sequences, quadratic sequences, fractions in ratio problems, inversely 1/y, compound in algebra, including pressure more involved questions. <u>GCSE Links:</u> Content from prev years +G8, G24,G25, A24,A25, N11, R10, R13, R2, N13, R1, R11</p>
11	<p><u>Topic Overview:</u> 1- Number 1 (2) 4 - Algebra 1 (2) 5- Algebra 2 (2) 3 - Stats (2) <u>NC links:</u> KS3 + Histograms and cumulative Frequency, iteration, further inequalities, Arguments and proof, <u>GCSE Links:</u> Content from prev years +, A6, S3, A20, A22</p>	<p><u>Topic Overview:</u> 2- Number 2 (2) 7 - Algebra 3 (3) 13 - Length, area, volume, similarity (3) <u>NC links:</u> KS3 + Exact values with pi + surds, graphs of reciprocals (manipulation), exponential graphs, further gradients and area under graphs, interpret graphs – rate of change and direct/indirect proportion, Chords and tangents to graphs, , similar lengths area and volume <u>GCSE Links:</u> Content from prev years +, N8, A13,A14,A15, R12, R19, R14,R15,</p>	<p>GCSE Revision</p>	