

	KS4 - MATHS YEAR 11 (2026-27) Northumberland PRU Year 11 Scheme of Work
WHOLE-YEAR OVERVIEW - 2026-2027 Subject Area Topic: Year 11 Mathematics	

Four 45-minute lessons per week. HT1-HT4 retain the assessment/checkpoint response cycle; HT5 is reserved for targeted revision, examinations and transition. The additional lesson strengthens consolidation, feedback and exam application.

Half Term / Theme	Core Curriculum Focus	Teaching Weeks	Assessment Cycle	Length
Autumn 1 'Equality & Diversity'	Core Foundation Recall and Geometry	Number, FDP, ratio, angles, transformations, measures, circles and right-angled triangles.	Checkpoint + misconceptions	8
Autumn 2 'Living in the Wider World'	Algebra, Graphs and Mock Preparation	Expressions, equations, sequences, formulae, coordinates and straight-line graphs.	Mock series + feedforward	7
Spring 1 'The Circle of Life'	Statistics and Probability	Averages, charts, scatter graphs, sample spaces, two-way tables, Venn and simple trees.	Checkpoint + misconceptions	6
Spring 2 'Conflict'	High-Value Grade 3 Methods and Exam Applications	Percentages, proportion, compound measures and cumulative algebra/geometry.	Assessment + misconceptions	5
Summer 1 'Health & Leisure'	Final Revision and Examination Readiness	Paper-focused revision, QLA targets, timed sections, equipment and exam routines.	Revision/exam window only	7
Summer 2 'Crime & Punishment'	Not applicable - Year 11 pupils leave at the end of Half Term 5	No Year 11 teaching weeks	Pupils leave at the end of HT5	N/A

Fluency Secure the essential method through carefully varied practice.	Apply Use the method in context, choose information or complete more than one step.	Mastering Explain, compare, justify, generalise or solve an unfamiliar problem.
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					KS4 - MATHS YEAR 11 (2026-27) Northumberland PRU Year 11 Scheme of Work				
Autumn 1 – ‘Equality & Diversity’ Subject Area Topic: Core Foundation Recall and Geometry Weeks 1-4 of 8									
Length			8 weeks			Teaching time		32 lessons	
Assessment			Week 7 Checkpoint; Week 8 Misconceptions			Core purpose		Rebuild confidence and secure high-frequency Foundation methods.	
Week		Subject Area Topic and Four Lessons		Fluency - Apply - Mastering		Notes / Links / Interleaving		Access / Additional Higher Content	

1	Number and calculator fluency Secure reliable methods and exam routines. L1: Place value, ordering, negative numbers and reading scales. L2: Four operations, written methods and order of operations. L3: Rounding, estimation and checking whether an answer is sensible. L4: Calculator entry, brackets, fraction key, interpreting the display and a short mixed exam set.	Fluency: Accurate one-step calculations. Apply: Money, temperature and multi-step contexts. Mastering: Order of operations, efficient checking and error analysis.	Retrieval: times tables and number bonds. Vocabulary: integer, operation, inverse, estimate, round, significant figure.	Access: place-value grids, number lines and calculator key-sequence cards. Additional Higher Content: Order of operations, efficient checking and error analysis.
2	Fractions, decimals and percentages Move confidently between equivalent forms. L1: Equivalent fractions, simplifying and fractions of amounts. L2: Add, subtract, multiply and divide accessible fractions using visual models first. L3: Common FDP conversions and ordering mixed forms. L4: Percentage of an amount, increase/decrease and a mixed Foundation practice set.	Fluency: Common conversions, simple fraction calculations and familiar percentages. Apply: Mixed FDP questions and percentage change. Mastering: Reverse percentage introduced through bar models.	Retrieval: factors and multiples. Vocabulary: numerator, denominator, equivalent, percentage, multiplier, original.	Access: fraction walls, percentage bars and conversion grids. Additional Higher Content: Reverse percentage introduced through bar models.
3	Ratio and proportion Represent, share and scale. L1: Simplify ratios and connect ratios to fractions. L2: Share an amount in a given ratio using bar models. L3: Scale recipes and maps; use the unitary method for best buys. L4: Mixed ratio and direct-proportion exam questions with method selection.	Fluency: Simplify and share with integer answers. Apply: Recipe, map, scale and cost contexts. Mastering: Missing-ratio questions and direct-proportion tables.	Retrieval: division and fractions. Vocabulary: ratio, part, whole, proportion, scale, unitary, rate.	Access: counters, double number lines, practical mixing and price labels. Additional Higher Content: Missing-ratio questions and direct-proportion tables.
4	Angles, bearings and transformations Read diagrams and instructions accurately. L1: Angles on a line, around a point, vertically opposite and in triangles/quadrilaterals. L2: Parallel-line and polygon angles; introduce three-figure bearings with clear diagrams. L3: Reflection, rotation, translation and enlargement on coordinate grids. L4: Mixed Foundation geometry questions, equipment practice and written reasons.	Fluency: Single-step missing angles and clear transformations. Apply: Two-step diagrams, bearings and accurate descriptions. Mastering: Polygon angles, multi-step bearings and fractional enlargement where secure.	Retrieval: arithmetic and coordinates. Vocabulary: corresponding, alternate, co-interior, bearing, clockwise, scale factor.	Access: colour coding, tracing paper, angle fact cards and enlarged grids. Additional Higher Content: Polygon angles, multi-step bearings and fractional enlargement where secure.
Notes / Links / Interleaving: Retrieval is cumulative and selected from prior learning and assessment evidence.			Additional Higher Content: Deepen the same concept through explanation, proof, generalisation and unfamiliar problems.	

KS4 - MATHS YEAR 11 (2026-27) Northumberland PRU Year 11 Scheme of Work	
Autumn 1 – ‘Equality & Diversity’ Subject Area Topic: Core Foundation Recall and Geometry Weeks 5-8 of 8	

Length		8 weeks		Teaching time		32 lessons		
Assessment		Week 7 Checkpoint; Week 8 Misconceptions		Core purpose		Rebuild confidence and secure high-frequency Foundation methods.		
Week	Subject Area Topic and Four Lessons		Fluency - Apply - Mastering		Notes / Links / Interleaving		Access / Additional Higher Content	
5	Perimeter, area, circles and volume <i>Use formulae with correct units.</i> L1: Perimeter and area of rectangles, triangles and compound rectilinear shapes. L2: Circumference and area of circles; semicircles and quarter circles. L3: Volume and surface area of cuboids and simple prisms. L4: Mixed formula-selection questions, reverse problems and explicit unit checking.		Fluency: Substitute into formulae with all dimensions given. Apply: Compound shapes, missing lengths and practical packaging. Mastering: Reverse problems and simple composite shapes.		Retrieval: multiplication and substitution. Vocabulary: perimeter, area, circumference, radius, diameter, volume, surface area.		Access: formula mats, physical circles, squared paper and unit cubes. Additional Higher Content: Reverse problems and simple composite shapes.	
6	Right-angled triangles <i>Choose the correct method.</i> L1: Squares, roots, identifying the hypotenuse and calculator routines. L2: Pythagoras to find a missing hypotenuse or shorter side. L3: Introductory SOHCAHTOA to find missing sides using a scaffold. L4: Method selection in exam questions; missing angles and multi-step problems as Mastering.		Fluency: Identify sides and substitute with a scaffold. Apply: Routine Pythagoras and missing-side trigonometry. Mastering: Missing angles and multi-step geometry.		Retrieval: squares, roots and formula substitution. Vocabulary: hypotenuse, opposite, adjacent, sine, cosine, tangent.		Access: colour-coded triangles, formula mats and calculator rehearsal. Additional Higher Content: Missing angles and multi-step geometry.	
7	CHECKPOINT WEEK L1: Guided cumulative revision using Year 10 handover information and current retrieval evidence. L2: HT1 checkpoint: accessible cumulative Foundation paper completed under agreed conditions. L3: Teacher modelling, corrections and whole-class question-level analysis. L4: Individual target practice, pupil retry and a concise next-step record.		Fluency: Secure Grade 1-2 methods. Apply: Routine Grade 2-3 applications. Mastering: Selected Grade 4 questions without displacing the core.		Retrieval: Current QLA and high-value prior content.		Access: Analyse by strand: Number, Ratio, Geometry and calculator use. Avoid reteaching the entire paper in one lesson. Additional Higher Content: Selected Grade 4 questions without displacing the core.	
8	MISCONCEPTIONS WEEK L1: Reteach the highest-impact Number/calculator misconception. L2: Reteach the highest-impact FDP/ratio misconception. L3: Reteach the highest-impact Geometry/measure misconception. L4: Mixed recheck, corrections and retrieval plan for any remaining gap.		Fluency: Concrete and pictorial rebuild. Apply: Apply the corrected method in a fresh context. Mastering: Explain the original error and generalise the corrected rule.		Retrieval: Current QLA and high-value prior content.		Access: Use question-level analysis. Pupils correct original errors in a different colour and then complete fresh examples. Additional Higher Content: Explain the original error and generalise the corrected rule.	
Notes / Links / Interleaving: Retrieval is cumulative and selected from prior learning and assessment evidence.				Additional Higher Content: Deepen the same concept through explanation, proof, generalisation and unfamiliar problems.				

KS4 - MATHS YEAR 11 (2026-27)

Northumberland PRU Year 11 Scheme of Work

Autumn 2 - 'Living in the Wider World'

Subject Area Topic: Algebra, Graphs and Mock Preparation | Weeks 1-4 of 7

Length		7 weeks		Teaching time		28 lessons		
Assessment		Week 6 Mock Series; Week 7 Feedforward		Core purpose		Use three-paper mock evidence to identify precise revision priorities.		
Week	Subject Area Topic and Four Lessons		Fluency - Apply - Mastering		Notes / Links / Interleaving		Access / Additional Higher Content	
1	Algebra foundations <i>Understand and simplify expressions.</i> L1: Use algebraic notation; identify terms, coefficients, expressions and equations. L2: Collect like terms and substitute positive and negative values. L3: Substitute into simple mathematical and scientific formulae. L4: Mixed Foundation algebra practice and forming expressions from perimeter or money contexts.		Fluency: Collect positive like terms and substitute integers. Apply: Negatives, powers and contextual formulae. Mastering: Form expressions and equations from familiar contexts.		Retrieval: inverse operations and signed numbers. Vocabulary: term, expression, variable, coefficient, substitute, formula.		Access: algebra tiles, substitution boxes and worked-example fading. Additional Higher Content: Form expressions and equations from familiar contexts.	
2	Expand, factorise and solve <i>Connect algebra to inverse operations.</i> L1: Expand a single bracket using area models and the distributive law. L2: Factorise by taking out a numerical or algebraic common factor. L3: Solve one-step and two-step equations, including negatives. L4: Equations with brackets or the unknown on both sides where secure; mixed exam practice for all.		Fluency: Positive single brackets and simple equations. Apply: Common factors, negatives and bracketed equations. Mastering: Unknown on both sides or double brackets as extension.		Retrieval: multiplication, factors and inverse operations. Vocabulary: expand, factorise, factor, equation, solve, solution.		Access: area grids, balance models and colour-coded operations. Additional Higher Content: Unknown on both sides or double brackets as extension.	
3	Sequences and formulae <i>Recognise, generalise and rearrange.</i> L1: Continue arithmetic and visual sequences; describe term-to-term rules. L2: Find and use the nth term of simple linear sequences. L3: Rearrange simple one-step formulae and substitute to check. L4: Mixed sequence/formula questions, membership tests and two-step rearrangement as Mastering.		Fluency: Continue sequences and substitute into formulae. Apply: Find/use simple nth terms and rearrange one step. Mastering: Test membership or rearrange two-step formulae.		Retrieval: times tables and algebra notation. Vocabulary: sequence, term, difference, nth term, subject, rearrange.		Access: matchsticks, difference tables and flow diagrams. Additional Higher Content: Test membership or rearrange two-step formulae.	

4	Coordinates and straight-line graphs Connect tables, equations and graphs. L1: Coordinates in four quadrants; complete value tables and plot points. L2: Draw straight-line graphs from tables and read values accurately. L3: Gradient and intercept; recognise and use $y = mx + c$. L4: Find simple equations from graphs, recognise parallel lines and complete a mixed exam set.	Fluency: Plot and read coordinates accurately. Apply: Draw and interpret straight lines. Mastering: Find an equation from a graph or compare gradients.	Retrieval: substitution and negative numbers. Vocabulary: coordinate, axis, gradient, intercept, linear, parallel.	Access: large grids, colour-coded axes and pre-completed first points. Additional Higher Content: Find an equation from a graph or compare gradients.
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KS4 - MATHS YEAR 11 (2026-27)			Northumberland PRU Year 11 Scheme of Work		
Autumn 2 - 'Living in the Wider World'					
Subject Area Topic: Algebra, Graphs and Mock Preparation Weeks 5-7 of 7					
Length		7 weeks	Teaching time		28 lessons
Assessment		Week 6 Mock Series; Week 7 Feedforward	Core purpose		Use three-paper mock evidence to identify precise revision priorities.
Week	Subject Area Topic and Four Lessons	Fluency - Apply - Mastering	Notes / Links / Interleaving	Access / Additional Higher Content	
5	MOCK PREPARATION <i>Prepare pupils without replacing teaching with endless papers.</i> L1: Paper 1 high-value non-calculator retrieval and modelled methods. L2: Paper 2 calculator, geometry and measure preparation. L3: Paper 3 calculator, statistics and probability preparation. L4: Exam routines: equipment, time management, showing working and personal priority review.	Fluency: Recall reliable core methods. Apply: Complete short timed sections. Mastering: Select methods independently on later Foundation questions.	Retrieval: Current QLA and high-value prior content.	Access: Use short focused sections and calm routines. Do not overload pupils with three full practice papers before the mock. Additional Higher Content: Select methods independently on later Foundation questions.	
6	MOCK SERIES L1: GCSE Foundation Paper 1 under formal mock conditions. L2: GCSE Foundation Paper 2 under formal mock conditions. L3: GCSE Foundation Paper 3 under formal mock conditions. L4: Protected catch-up/access-arrangement slot or supervised reflection where the timetable permits.	Fluency: Attempt accessible marks accurately. Apply: Manage time, equipment and multi-step questions. Mastering: Sustain reasoning on later Foundation questions.	Retrieval: Current QLA and high-value prior content.	Access: Follow the agreed mock timetable and access arrangements. No live paper content should be discussed before all pupils have completed it. Additional Higher Content: Sustain reasoning on later Foundation questions.	

7	MOCK FEEDFORWARD L1: QLA overview: celebrate strengths and identify the highest-impact whole-class gaps. L2: Reteach Number, FDP and Ratio priorities with pupil retry. L3: Reteach Algebra, Graphs and Geometry priorities with pupil retry. L4: Data/Probability priorities, short recheck and individual revision targets.	Fluency: Rebuild one reliable method. Apply: Apply it to fresh exam questions. Mastering: Explain why the original response lost marks.	Retrieval: Current QLA and high-value prior content.	Access: Use all three papers to create a concise individual priority list. Avoid generic revision booklets. Additional Higher Content: Explain why the original response lost marks.
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			KS4 - MATHS YEAR 11 (2026-27)	
			Northumberland PRU Year 11 Scheme of Work	
Spring 1 – ‘The Circle of Life’				
Subject Area Topic: Statistics and Probability Weeks 1-3 of 6				
Length		6 weeks	Teaching time	
Assessment		Week 5 Checkpoint; Week 6 Misconceptions	Core purpose	
			Gain marks through accurate reading, representation and calculation.	
Week	Subject Area Topic and Four Lessons	Fluency - Apply - Mastering	Notes / Links / Interleaving	Access / Additional Higher Content
1	Data and averages Summarise and compare information. L1: Data types, tally charts and frequency tables. L2: Mean, median, mode and range from lists. L3: Averages from frequency tables and choosing an appropriate average. L4: Compare data sets, solve accessible reverse-mean questions and complete exam practice.	Fluency: Calculate averages from small data sets. Apply: Frequency tables and comparison statements. Mastering: Reverse mean and critique misleading summaries.	Retrieval: four operations and division. Vocabulary: data, frequency, mean, median, mode, range, discrete, continuous.	Access: ordered lists, counters and calculator checking. Additional Higher Content: Reverse mean and critique misleading summaries.
2	Representing data Read and construct common diagrams. L1: Bar charts, pictograms and dual bar charts. L2: Pie charts and time-series graphs. L3: Scatter graphs, correlation and line of best fit. L4: Mixed chart questions, interpolation/extrapolation and misleading graphs as Mastering.	Fluency: Read values and complete scales. Apply: Construct diagrams and make comparisons. Mastering: Interpolation/extrapolation and evaluate misleading graphs.	Retrieval: angles and percentages. Vocabulary: axis, scale, sector, correlation, positive, negative, line of best fit.	Access: pre-drawn axes, graph templates and real school data. Additional Higher Content: Interpolation/extrapolation and evaluate misleading graphs.
3	Probability foundations Quantify chance accurately. L1: Probability scale, language and single-event probability. L2: List outcomes and use sample-space diagrams. L3: Two-way tables and finding missing frequencies/probabilities. L4: Mixed Foundation probability questions and complementary probability.	Fluency: Write simple probabilities as fractions. Apply: Sample spaces and two-way tables. Mastering: Combined events and complementary probability.	Retrieval: fractions and percentages. Vocabulary: outcome, event, probability, certain, impossible, equally likely, sample space.	Access: coins, dice, spinners and structured tables. Additional Higher Content: Combined events and complementary probability.

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	KS4 - MATHS YEAR 11 (2026-27) Northumberland PRU Year 11 Scheme of Work
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Spring 1 - 'The Circle of Life' Subject Area Topic: Statistics and Probability Weeks 4-6 of 6

Length	6 weeks	Teaching time	24 lessons
Assessment	Week 5 Checkpoint; Week 6 Misconceptions	Core purpose	Gain marks through accurate reading, representation and calculation.

Week	Subject Area Topic and Four Lessons	Fluency - Apply - Mastering	Notes / Links / Interleaving	Access / Additional Higher Content
4	Venn diagrams, trees and experiments <i>Organise combined events.</i> L1: Interpret and complete two-set Venn diagrams. L2: Simple probability tree diagrams with replacement. L3: Experimental probability and relative frequency. L4: Mixed combined-event exam questions; without-replacement trees or simple set notation only where secure.	Fluency: Place values in regions and complete branches summing to 1. Apply: Find combined probabilities in familiar contexts. Mastering: Without-replacement trees or simple set notation.	Retrieval: sample spaces and fractions. Vocabulary: intersection, union, mutually exclusive, branch, replacement, relative frequency.	Access: hoops, sorting cards, branch templates and practical trials. Additional Higher Content: Without-replacement trees or simple set notation.
5	CHECKPOINT WEEK L1: Guided revision using short data and probability stations. L2: HT3 checkpoint: cumulative paper including selected HT1-2 retrieval. L3: Teacher modelling, corrections and question-level analysis. L4: Individual target practice, pupil retry and a short recheck.	Fluency: Accurate reading of tables and diagrams. Apply: Routine calculations and comparisons. Mastering: Multi-step probability and interpretation.	Retrieval: Current QLA and high-value prior content.	Access: Check reading accuracy, scale use and mathematical vocabulary as well as calculation. Additional Higher Content: Multi-step probability and interpretation.
6	MISCONCEPTIONS WEEK L1: Reteach the highest-frequency averages misconception. L2: Reteach the highest-frequency chart/scale misconception. L3: Reteach the highest-frequency probability representation misconception. L4: Reteach the combined-event gap and complete a mixed recheck.	Fluency: Visual reconstruction. Apply: Fresh examples in a changed context. Mastering: Explain why an incorrect conclusion is misleading.	Retrieval: Current QLA and high-value prior content.	Access: Use anonymous examples from pupil work to support error analysis. Additional Higher Content: Explain why an incorrect conclusion is misleading.

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	KS4 - MATHS YEAR 11 (2026-27)
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		Northumberland PRU Year 11 Scheme of Work			
Spring 2 – ‘Conflict’					
Subject Area Topic: High-Value Grade 3 Methods and Exam Applications Weeks 1-3 of 5					
Length		5 weeks		Teaching time	20 lessons
Assessment		Week 4 Assessment; Week 5 Misconceptions		Core purpose	Secure high-value Grade 2-3 methods and create final revision targets.
Week	Subject Area Topic and Four Lessons	Fluency - Apply - Mastering	Notes / Links / Interleaving	Access / Additional Higher Content	
1	Percentages, proportion and compound measures <i>Connect number methods to contexts.</i> L1: Percentage increase/decrease, decimal multipliers and simple interest. L2: Direct proportion, recipes, scale and best buys. L3: Speed-distance-time and density-mass-volume. L4: Mixed money, travel and measure problems; reverse percentage as Mastering.	Fluency: One-step percentage, ratio and formula substitution. Apply: Money, travel and practical problems. Mastering: Reverse percentage or multi-step compound measures.	Retrieval: FDP, ratio and unit conversion. Vocabulary: multiplier, proportion, unitary, rate, speed, density.	Access: bars, ratio tables, formula triangles and calculator sequences. Additional Higher Content: Reverse percentage or multi-step compound measures.	
2	Algebra and graphs consolidation <i>Secure common Foundation methods.</i> L1: Collect, expand, factorise and substitute. L2: Solve equations and inequalities; represent inequalities on a number line. L3: Sequences, straight-line graphs and simple intersections. L4: Mixed algebra exam questions and targeted QLA practice.	Fluency: Reliable one-step and two-step methods. Apply: Mixed algebra questions and contextual equations. Mastering: Unknown both sides, simple simultaneous ideas or quadratic tables.	Retrieval: signed number and inverse operations. Vocabulary: expression, equation, inequality, gradient, intercept, intersection.	Access: balance models, number-line templates and pre-drawn axes. Additional Higher Content: Unknown both sides, simple simultaneous ideas or quadratic tables.	
3	Geometry and measure consolidation <i>Select formulae and methods from diagrams.</i> L1: Angles, bearings and transformations. L2: Area, circles, volume and surface area. L3: Pythagoras and introductory trigonometry in exam contexts. L4: Mixed geometry/measure paper section, equipment routines and corrections.	Fluency: Single-method diagram questions. Apply: Two-step geometry and measure problems. Mastering: Composite shapes or method-choice questions.	Retrieval: squares, roots, units and calculator mode. Vocabulary: bearing, scale factor, circumference, volume, hypotenuse, tangent.	Access: formula mats, colour coding and equipment rehearsal. Additional Higher Content: Composite shapes or method-choice questions.	
Notes / Links / Interleaving: Retrieval is cumulative and selected from prior learning and assessment evidence.			Additional Higher Content: Deepen the same concept through explanation, proof, generalisation and unfamiliar problems.		

KS4 - MATHS YEAR 11 (2026-27) Northumberland PRU Year 11 Scheme of Work			
Spring 2 – ‘Conflict’ Subject Area Topic: High-Value Grade 3 Methods and Exam Applications Weeks 4-5 of 5			
Length	5 weeks	Teaching time	20 lessons
Assessment	Week 4 Assessment; Week 5 Misconceptions	Core purpose	Secure high-value Grade 2-3 methods and create final revision targets.

Week	Subject Area Topic and Four Lessons	Fluency - Apply - Mastering	Notes / Links / Interleaving	Access / Additional Higher Content
4	ASSESSMENT WEEK L1: Guided cumulative revision using mock and checkpoint targets. L2: HT4 cumulative Foundation-style assessment or substantial paper section. L3: Teacher modelling, pupil corrections and question-level analysis. L4: Individual retry, strand reporting and final HT5 priority selection.	Fluency: Essential Grade 1-2 security. Apply: Routine Grade 2-3 applications. Mastering: Selected Grade 4 questions where appropriate.	Retrieval: Current QLA and high-value prior content.	Access: Report outcomes by strand and by error type: knowledge, method selection, calculation or reading. Additional Higher Content: Selected Grade 4 questions where appropriate.
5	MISCONCEPTIONS AND REVISION TARGETS L1: Reteach the highest-impact Number/FDP/Ratio gap. L2: Reteach the highest-impact Algebra/Graph gap. L3: Reteach the highest-impact Geometry/Data gap. L4: Personal target lesson, short recheck and completed HT5 revision plan.	Fluency: Secure one reliable method. Apply: Apply it to unfamiliar wording. Mastering: Compare methods and explain the correction.	Retrieval: Current QLA and high-value prior content.	Access: Each pupil leaves with a short personalised priority list for final revision. Additional Higher Content: Compare methods and explain the correction.
Notes / Links / Interleaving: Retrieval is cumulative and selected from prior learning and assessment evidence.		Additional Higher Content: Deepen the same concept through explanation, proof, generalisation and unfamiliar problems.		

KS4 - MATHS YEAR 11 (2026-27)			Northumberland PRU Year 11 Scheme of Work					
Summer 1 – ‘Health & Leisure’								
Subject Area Topic: Final Revision and Examination Readiness Weeks 1-4 of 7								
Length		7 weeks	Teaching time		28 lessons			
Assessment		Targeted revision and examination window	Core purpose		Maximise accessible marks and build calm, confident exam routines.			
Week	Subject Area Topic and Four Lessons		Fluency - Apply - Mastering		Notes / Links / Interleaving		Access / Additional Higher Content	
1	Paper 1: Number and FDP Build non-calculator confidence. L1: Four operations, negatives, factors, multiples and order of operations. L2: Fractions and decimals without a calculator. L3: Percentages, ratio and proportion without a calculator. L4: Short timed Paper 1 section, live modelling, corrections and retry.		Fluency: Accurate arithmetic and common conversions. Apply: Mixed one- and two-step questions. Mastering: Later Foundation non-calculator questions.		Retrieval: Current QLA and high-value prior content.		Access: Use short timed sections, explicit checking routines and multiplication support during teaching where appropriate. Additional Higher Content: Later Foundation non-calculator questions.	

2	Paper 1: Algebra and graphs Show working clearly. L1: Substitution, collecting like terms, expanding and factorising. L2: Solve equations and inequalities; rearrange simple formulae. L3: Sequences, coordinates and straight-line graphs. L4: Short timed Paper 1 algebra section, feedforward and pupil retry.	Fluency: Core algebra notation and one-step methods. Apply: Mixed algebra and graph questions. Mastering: Unknown both sides or simple quadratic tables.	Retrieval: Current QLA and high-value prior content.	Access: Use model-answer comparisons and mark-scheme language without encouraging copying. Additional Higher Content: Unknown both sides or simple quadratic tables.
3	Calculator papers: Geometry and measures Use equipment and formulae accurately. L1: Angles, bearings and transformations. L2: Perimeter, area, circles, volume and surface area. L3: Compound measures, Pythagoras and introductory trigonometry. L4: Timed calculator-paper geometry section, corrections and method retry.	Fluency: Substitute correctly and include units. Apply: Two-step context questions. Mastering: Composite or method-selection questions.	Retrieval: Current QLA and high-value prior content.	Access: Rehearse calculator mode, ruler, protractor and compass expectations. Additional Higher Content: Composite or method-selection questions.
4	Calculator papers: Data and probability Read before calculating. L1: Averages, tables, charts and comparison statements. L2: Scatter graphs, correlation and line of best fit. L3: Probability, sample spaces, two-way tables, Venn diagrams and simple trees. L4: Timed data/probability section, feedforward and pupil retry.	Fluency: Read scales and calculate simple probabilities. Apply: Construct and interpret diagrams. Mastering: Combined events and misleading conclusions.	Retrieval: Current QLA and high-value prior content.	Access: Highlight command words and require pupils to annotate tables/diagrams before calculating. Additional Higher Content: Combined events and misleading conclusions.
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KS4 - MATHS YEAR 11 (2026-27)				
Northumberland PRU Year 11 Scheme of Work				
Summer 1 - 'Health & Leisure'				
Subject Area Topic: Final Revision and Examination Readiness Weeks 5-7 of 7				
Length	7 weeks		Teaching time	28 lessons
Assessment	Targeted revision and examination window		Core purpose	Maximise accessible marks and build calm, confident exam routines.
Week	Subject Area Topic and Four Lessons	Fluency - Apply - Mastering	Notes / Links / Interleaving	Access / Additional Higher Content

5	Personalised QLA revision Target the marks each pupil can gain. L1: Priority target 1 from mock/checkpoint/assessment evidence. L2: Priority target 2 with linked retrieval. L3: Priority target 3 or supported Grade 4 pathway work where appropriate. L4: Mixed mini-paper, corrections and updated target review.	Fluency: Rebuild the chosen method. Apply: Apply to fresh exam questions. Mastering: Generalise and explain common errors.	Retrieval: Current QLA and high-value prior content.	Access: Use individual target packs with a small number of purposeful questions, not large generic booklets. Additional Higher Content: Generalise and explain common errors.
6	Full-paper practice and final priorities Build stamina without overload. L1: Timed paper or substantial paper section matched to the examination timetable. L2: Teacher-modelled high-value corrections. L3: Pupil retry and targeted paired examples. L4: Final Number/Algebra/Geometry/Data priority carousel.	Fluency: Complete accessible marks accurately. Apply: Manage time and select methods. Mastering: Sustain reasoning on later Foundation questions.	Retrieval: Current QLA and high-value prior content.	Access: Where a live examination occurs, replace practice with calm pre-exam preparation and an appropriate post-paper debrief. Additional Higher Content: Sustain reasoning on later Foundation questions.
7	EXAM WINDOW, CONTINGENCY AND TRANSITION L1: Revision matched to the next scheduled paper or supervised catch-up. L2: Final targeted retrieval and confidence-building routines. L3: Access-arrangement rehearsal, equipment checks or contingency revision. L4: Course closure, celebration of progress and post-16 maths/resit readiness where examinations are complete.	Fluency: Recall core methods and equipment routines. Apply: Use personal checklists under timed conditions. Mastering: Choose efficient methods independently.	Retrieval: Current QLA and high-value prior content.	Access: Sequence flexibly around the official timetable, attendance and access arrangements. Do not introduce new content. Additional Higher Content: Choose efficient methods independently.
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KS4 - MATHS YEAR 11 (2026-27) Northumberland PRU Year 11 Scheme of Work	
Summer 2 - 'Crime & Punishment' Subject Area Topic: Not applicable - Year 11 pupils leave at the end of Half Term 5	

YEAR 11 COURSE COMPLETE No Year 11 scheme of work is required for Half Term 6. Pupils leave at the end of Half Term 5 following the examination and transition programme.
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Notes / Links / Interleaving: Retrieval is cumulative and selected from prior learning and assessment evidence.	Additional Higher Content: Deepen the same concept through explanation, proof, generalisation and unfamiliar problems.
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