KS4 MATHS Yr11 (2025-26)

Northumberland's P.R.U.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15

Autumn 1 – 'Equality & Diversity'								Autumn 2 – 'Living in the Wider World'						
Subject Area Topic								**Subject Area Topic**						
1. Sequences Continue a sequence Find missing terms in a sequence Use a rule to generate a sequence Find the nth term of a linear sequence Use nth term to find terms in a sequence Decide if a term is in a sequence including Fibonacci-type sequences, quadratic sequences, and simple geometric progressions (rn where n is an integer and r is a rational	2.Limits of accuracy round numbers and measures to an appropriate degree of accuracy (eg to a specified number of decimal places or significant figures) use inequality notation to specify simple error intervals due to truncation or rounding	3.Angles and Bearings Revise basic angle facts (on a line, vertically opposite, round a point, in a triangle and quadrilateral) Find angles in parallel lines Interior and exterior angles of polygons Understand and calculate bearings	4. Transformations Revise translation, reflection and rotation. Understand that these 3 transformations result in congruent shapes. Enlarge a shape from a given centre Understand that enlargements create similar shapes	5. Right angled triangles Use Pythagoras's theorem to find missing sides in right angled triangles Use past exam questions with shapes involving right angles and linking to area (e.g. triangles and trapeziums)	6.Right angled triangles Use SOH CAH TOA to find missing sides and angles in right angled triangles	7. REVISION / ASSESSMENT	8. MISCONCEPTIONS	1.Gradients and lines identify and interpret gradients and intercepts of linear functions graphically and algebraically lot graphs of equations that correspond to straight-line graphs in the coordinate plane use the form y=mx+c to identify parallel lines	2.Gradients and lines find the equation of the line through two given points, or through one point with a given gradient	3.Algebraic Manipulation collecting like terms multiplying a single term over a bracket taking out common factors	4.Algebraic Manipulation simplifying expressions involving sums, products and powers, including the laws of indices	5. Algebraic Manipulation expanding products of two binomials factorising quadratic expressions of the form x2+bx+c, including the difference of two squares	6. REVISION / ASSESSMENT	7. MISCONCEPTIONS

number > 0)											

Notes/Links/Interleaving		Additional Higher Content					Notes/Links/Interleaving		Additional Higher Content		

Spring 1 – 'The Circle of Life' | Spring 2 – 'Conflict'

Subject Area Topic | **Subject Area Topic**

1.Ratio and proportion	2.Working with quadratics	3. Non calculator Methods	4. Non calculator Methods	5 REVISION / ASSESSMENT	6. MISCONCEPTIONS	1. REVISION FOR EXAM	2.REVISION FOR EXAM	3. REVISION FOR EXAM	4. REVISION FOR EXAM	5. REVISION / ASSESSMENT	6. MISCONCEPTIONS
Simplify ratios Write in the from 1:n or n:1 Convert between ratios and fractions Divide into a ratio Find missing parts in a ratio Solve problems interleaving ratio with other topics e.g. angles, perimeter etc… Know graphs of inverse and direct proportion Use direct proportion Solve problems with inverse proportion	Factorise quadratics Solve quadratics by factorising Find roots of a quadratic function Sketch graph of a quadratic function Identify roots and turning points from a graph Draw the graphs of a quadratic function with and without a table of values	Know exact trig values Use sin30 and cos 60 to find missing sides Practice exam questions involving Four operations written and mental methods Decimal arithmetic Fraction arithmetic	Know exact trig values Use sin30 and cos 60 to find missing sides Practice exam questions involving Four operations written and mental methods Decimal arithmetic Fraction arithmetic								

Notes/Links/Interleaving		Additional Higher Content					Notes/Links/Interleaving		Additional Higher Content		

Summer 1 – 'Health & Leisure' | Summer 2 – 'Crime & Punishment'

Subject Area Topic | **Subject Area Topic**

	1. REVISION FOR EXAM	2. REVISION FOR EXAM	3. REVISION FOR EXAM	4. REVISION FOR EXAM	5. REVISION / ASSESSMENT	6. MISCONCEPTIONS	1.	2.	3.	4.	5	6 REVISION / ASSESSMENT	7. MISCONCEPTIONS
	Notes/Links/Interleaving		**Additional Higher Content**						**Notes/Links/Interleaving**			**Additional Higher Content**	