

Hebburn Comprehensive School

Key Stage 4 Scheme of Learning Overview

Mathematics Department

Foundation Tier		
Year 10		
Assessment Cycle 1	Assessment Cycle 2	Assessment Cycle 3
Indices, Powers and Roots Order of Operations Substitution Rounding Algebraic Expressions Fractions, Decimals and Percentages Equations Pythagoras' Theorem Perimeter and Area Coordinates Graphs Sequences Scattergraphs	Statistics Ratio Vectors Transformations Graphs and Charts Percentages Algebraic Expressions, Functions and Formula Angles Simultaneous Equations Plans and Elevations Primes, Multiples and Factors Direct Proportion Sampling Probability	Exact Calculations Volume and Surface Area Measures Quadratic Equations Probability Growth and Decay Standard Form Inequalities Map and Scale Drawings Congruency and Similarity Graphs Inverse Proportion
Summer Term		
Constructions Trigonometry		
Year 11		
Assessment Cycle 1	Assessment Cycle 2	Assessment Cycle 3
Integers, Decimals and Fractions Integers, Powers and Roots Probability Ratio Units and Measures Manipulating Algebra Shapes Scale Drawing	Equations Percentages Graphs and Charts Graphs and Functions Averages Transformations and Vectors	Revision and exam preparation



Higher Tier

Year 10

Assessment Cycle 1	Assessment Cycle 2	Assessment Cycle 3
Indices, Powers and Roots Order of Operations Substitution Rounding Algebraic Expressions Fractions, Decimals and Percentages Equations Surds Pythagoras' Theorem Trigonometry Perimeter and Area Coordinates Graphs Sequences Scattergraphs	Statistics Ratio Vectors Transformations Graphs and Charts Percentages Algebraic Expressions, Functions and Formula Angles Simultaneous Equations Plans and Elevations Primes, Multiples and Factors Direct Proportion Sampling Probability	Trigonometry Non-Right Angled Triangles Exact Calculations Volume and Surface Area Measures Quadratic Equations Probability Growth and Decay Standard Form Inequalities Map and Scale Drawings Congruency and Similarity Graphs Inverse Proportion

Summer Term

Constructions
 Trigonometry
 Circle Theorems

Year 11

Assessment Cycle 1	Assessment Cycle 2*	Assessment Cycle 3
Solving Quadratic Equations involving Algebraic Fractions Simultaneous Equations Iteration Graphs of Functions Inequalities Straight Line Graphs Areas under Graphs	Surds Trigonometry Transformations Simultaneous Equations Inequalities Direct and Inverse Proportion Linear and Quadratic Equations Mensuration Graphs *suggested revision plan, class teachers tailor to needs of pupils	Revision and exam preparation

