

21/22: Year 9/10 Curriculum and Assessment Map

Year 9&10 Subject Mathematics								
	Intent							
		September - December		January - March		April - July		
		N1: Integers, place value and decimals	S1: Properties of shapes, parallel lines and angle facts	N2: Fractions, decimals and percentages	Roots, Factors, Multiples and Primes	G14: use standard units	Representing Data Review	
	Implementation	negative integers and decimals; use the symbols =, ≠, <, >, ≤, ≥ N2: apply the four operations, including formal written methods, to integers and decimals – both positive and negative; understand and use place value (e.g. when working with very large or very small numbers, and when	terms and notation: G3: apply the properties of angles y the four ns, including ritten y, to integers mals— both and negative; and and use lue (e.g. when with very very small y, and when ng with s) gnise and use hips between terms and notation: G3: apply the properties of angles D1: Tables, charts and graphs G14 use standard units of measure and related concepts (length, area, volume/capacity, mass, time, money, etc.) G15 measure line	N2: apply the four operations, including formal written methods, to simple fractions (proper and improper) and mixed numbers N8: calculate exactly	N4: use the concepts and vocabulary of prime numbers, factors (divisors), multiples, common factors,	concepts (length, area, volume/capacity, mass, time, money, etc.) G16: know and apply formulae to calculate: area of triangles, parallelograms, trapezia G17: calculate: perimeters of 2D shapes	SPg Produce charts and diagrams for various data types SPi Interpret a wide range of graphs and diagrams and draw conclusions SPk Recognise correlation and draw and/or use lines of best fit by eye, understanding what these represent Revision for End of year test	
		calculating with decimals) N3: recognise and use relationships between		Algebra Review Aa Distinguish the different roles played by			N1: Integers, place value and decimals	
		operations, including inverse operations (e.g. cancellation to simplify calculations	in geometric figures S2 interpret and construct tables, charts and diagrams,	letter symbols in algebra, using the correct notation Ab Distinguish in	G14: use standard units of measure and related concepts (length, area,			



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and expressions): use conventional notation for priority of operations, including brackets, powers, roots and reciprocals N14: estimate answers: check calculations using approximation and estimation, including answers obtained usina technoloav N15: round numbers and measures to an appropriate degree of accuracy (e.g. to a specified number of decimal places or significant figures)

A1: Expressions, substitution. expanding and factorising

Α1 use and interpret algebraic notation, including: A2 substitute numerical values into formulae and expressions, including scientific formulae A3 understand and use the concepts and vocabulary of expressions, equations,

including frequency tables

S1: Properties of shapes, parallel lines and angle facts

G1: use conventional terms and notation: G3: apply the properties of angles

> S2: Interior and exterior angles of polygons

G3: derive and use the sum of angles in a triangle (e.g. to deduce SPn Understand and use and use the angle sum in any polygon, and to derive properties of regular polygons) G11: solve geometrical axes

A3: Equations and inequalities

A21 situations or probabilities

meaning between the words 'equation'. formula' and 'expression' Ac Manipulate algebraic large of triangles. expressions by collecting parallelograms, trapezia like terms, by multiplying a single term perimeters of 2D shapes over a bracket, and by taking out common factors Af Derive a formula, substitute numbers into a formula

Probability

SPm Understand and use the vocabulary of probability and probability scale estimates or measures of probability from theoretical models (including equally likely outcomes), or from relative frequency SPo List all outcomes for problems on coordinate single events, and for two successive events, in a systematic way and derive relative probabilities SPp Identify different mutually exclusive outcomes and know that the sum of the probabilities of all these outcomes is 1 translate simple SPs Compare experimental data and theoretical

volume/capacity, mass, time, money, etc.) G16: know and apply formulae to calculate: G17: calculate:

S1: Properties of shapes. parallel lines and angle facts

N2: Fractions, decimals and percentages



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formulae, identities, inequalities, terms and factors A4 simplify and manipulate algebraic expressions A5 understand and use standard mathematica formulae; rearrange formulae to change the subject A6 know the difference between an equation an an identity; argue mathematically to show algebraic expressions ar equivalent, and use algebra to support and construct arguments A7 where appropriate, interpret simple expressions as functions with inputs and outputs	equation, solve the equation and interpret the solution A22 solve linear inequalities in one variable; represent the solution set on a number line	SPt Understand that if they repeat an experiment, they may – and usually will – get different outcomes, and that increasing sample size generally leads to better estimates of probability and population characteristics		
Impact	AP1 End Aut 2 Diagnostic Assessment		End Spring 1 Diagnostic Assessment	AP3 End Summer 1 Diagnostic Assessment End of year test.