

Scope and Sequence Document for: Mathematics 9

Year:	9	
Tutor	Ann Humphreys	
Tutor qualifications:	B Sc. (hons) Lancaster, PGCE	
Resources required:	Key maths 9/2, (2001), Baker, Hogan, Job and Verity, ISBN 9780748759880, Nelson Thornes; ¹ Mathematical instruments; Scientific calculator.	

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	05/09/22	Pythagoras CH1 - Construction of right-angled triangles leading to Pythagorean triples.
	2	12/09/22	Calculation of missing sides. Geometric proof TMA
2	3	19/09/22	Formulas CH2 - Extension of work on number patterns leading to the deduction of a rule. Prediction of results TMA
3	4	26/09/22	Circles CH3 - Circumference of a circle, by measurement, by calculation, justification of formulae
	5	03/10/22	Area of circle by approximation and calculation Compound shapes TMA
4	6	10/10/22	Statistic1 CH4 (part) - Bar charts for discrete and continuous data. Revision of range and averages, apply to continuous data
	7	17/10/22	TMA
	8	24/10/22	Half Term
5	9	31/10/22	Accuracy CH5 - Rounding off numbers to significant figures. Use in estimation. Multiplying and dividing by fractions.
	10	07/11/22	Use of the calculator What is a reasonable answer? Error in measurement Standard form for large numbers TMA
6	11	14/11/22	Volume CH6 - Volume and units of capacity. Volume of cuboid
	12	21/11/22	Areas of cross-section Volume of Cylinders and prisms. Flow in pipes. Units of capacity TMA
7	13	28/11/22	Number Revision CH7 - Revision of different ways of expressing a fraction. Increase and decrease as a percentage.
	14	05/12/22	Application to ratio and proportion Expression in the form 1: n Distance and speed problems, average speed TMA

¹ Out of print but can be purchased from Amazon as pre-used
NSW Scope and Sequence Document – 2021-22 General Northern

8	15	12/12/22	Algebra1 CH8 - Use and expansion of brackets. collecting like terms
	16	19/12/22	Christmas Holiday
	17	26/12/22	Christmas Holiday
	18	02/01/23	Christmas Holiday
8	19	09/01/23	Solution of linear equations TMA
9	20	16/01/23	Statistics2 CH9 & CH4 (part) - Estimation of Range and averages grouped data. Stem & Leaf diagrams.
	21	23/01/23	General use of pie charts and scatter diagrams. Types and strength of correlation. Line of best fit
	22	30/01/23	What we are comparing, when interpreting diagrams. Estimating with more than one pie chart. Simple surveys TMA
10	23	06/02/23	Probability CH10 - Revision of probability – listing equally likely outcomes
	24	13/02/23	Relative frequency and estimation Sample space diagrams TMA
	25	20/02/23	Half Term
11	26	27/02/23	Relative frequency and estimation Sample space diagrams TMA
	27	06/03/23	Algebra2 CH11 - Solution of quadratic equations and inequalities by trial and improvement methods
12	28	13/03/23	Relative frequency and estimation Sample space diagrams TMA
	29	20/03/23	Decimals CH12 – Using a calculator and order of operations BODMAS
13	30	27/03/23	Mental work with decimals leading to long multiplication and division TMA
	31	03/04/23	Angles CH13 - Revision of angle work leading to angles of regular polygons and related formula
	32	10/04/23	Easter Holiday
	33	17/04/23	Easter Holiday
13	34	24/04/23	Congruence Repeated geometrical transformations generating patterns. Enlargement with fractional scale factor. TMA
	35	01/05/23	Revision
	36	08/05/23	Exam Year 9
14	37	15/05/23	Algebra3 CH14 - Parallel perpendicular lines, Intersecting lines, leading to the solution of simultaneous equations.
	38	22/05/23	Algebraic solution by elimination. Problems generating simultaneous equations. TMA
	39	29/05/23	Half Term
15	40	05/06/23	Loci CH15 - Locus as a set of points which obey a rule. Application to problems of intersecting loci. Paths traced out by rotating objects
	41	12/06/23	Compass constructions of bisectors and perpendiculars. Circles of a triangle by paper folding and by construction TMA
16	42	19/06/23	Shape & Symmetry CH16 - Planes of symmetry of solids, nets of solids
	43	26/06/23	Building a shape sorter TMA

