

Scope and Sequence Document for: Mathematics 9

Year:	9	
Tutor	Ann Humphreys	
Tutor qualifications:	B Sc (Hons) Chemistry, 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	03/09/18	Pythagoras CH1 - Construction of right-angled triangles leading to Pythagorean triples.
	2	10/09/18	Calculation of missing sides. Geometric proof TMA
2	3	17/09/18	Formulas CH2 - Extension of work on number patterns leading to the deduction of a rule. Prediction of results TMA
3	4	24/09/18	Circles CH3 - Circumference of a circle, by measurement, by calculation, justification of formulae
	5	01/10/18	Area of circle by approximation and calculation Compound shapes TMA
4	6	08/10/18	Statistic1 CH4 (part) - Bar charts for discrete and continuous data. Revision of range and averages, apply to continuous data
	7	15/10/18	TMA
	8	22/10/18	Half Term
5	9	29/10/18	Accuracy CH5 - Rounding off numbers to significant figures. Use in estimation. Multiplying and dividing by fractions.
	10	05/11/18	Use of the calculator What is a reasonable answer? Error in measurement Standard form for large numbers TMA
6	11	12/11/18	Volume CH6 - Volume and units of capacity. Volume of cuboid
	12	19/11/18	Areas of cross-section Volume of Cylinders and prisms. Flow in pipes. Units of capacity TMA
7	13	26/11/18	Number Revision CH7 - Revision of different ways of expressing a fraction. Increase and decrease as a percentage.
	14	03/12/18	Application to ratio and proportion Expression in the form 1: n Distance and speed problems, average speed. TMA
8	15	10/12/18	Algebra1 CH8 - Use and expansion of brackets. collecting like terms
	16	17/12/18	Christmas Holiday
	17	24/12/18	Christmas Holiday

¹ Out of print but can be purchased from Amazon as pre-used
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	18	31/12/18	Christmas Holiday
8	19	07/01/19	Solution of linear equations TMA
9	20	14/01/19	Statistics2 CH9 & CH4 (part) - Estimation of Range and averages grouped data. Stem & Leaf diagrams.
	21	21/01/19	General use of pie charts and scatter diagrams. Types and strength of correlation. Line of best fit
	22	28/01/19	What we are comparing, when interpreting diagrams. Estimating with more than one pie chart. Simple surveys TMA
10	23	04/02/19	Probability CH10 - Revision of probability – listing equally likely outcomes
	24	11/02/19	Half Term
10	25	18/02/19	Relative frequency and estimation Sample space diagrams TMA
11	26	25/02/19	Algebra2 CH11 - Solution of quadratic equations and inequalities by trial and improvement methods
	27	04/03/19	Extension of inequalities to the whole number line TMA
12	28	11/03/19	Decimals CH12 – Using a calculator and order of operations BODMAS
	29	18/03/19	Mental work with decimals leading to long multiplication and division TMA
13	30	25/03/19	Angles CH13 - Revision of angle work leading to angles of regular polygons and related formula
	31	01/04/19	Congruence Repeated geometrical transformations generating patterns. Enlargement with fractional scale factor. TMA
	32	08/04/19	Easter Holiday
	33	15/04/19	Easter Holiday
	34	22/04/19	Easter Holiday
	35	29/04/19	Revision
	36	06/05/19	Exam Year 9
14	37	13/05/19	Algebra3 CH14 - Parallel perpendicular lines, Intersecting lines, leading to the solution of simultaneous equations.
	38	20/05/19	Algebraic solution by elimination. Problems generating simultaneous equations. TMA
	39	27/05/19	Half Term
15	40	03/06/19	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	10/06/19	Compass constructions of bisectors and perpendiculars. Circles of a triangle by paper folding and by construction TMA
16	42	17/06/19	Shape & Symmetry CH16 - Planes of symmetry of solids, nets of solids
	43	24/06/19	Building a shape sorter TMA