

Scope and Sequence Document for: Mathematics 8

Year:	8	
Tutor	Ann Humphreys	
Tutor qualifications:	B Sc. (hons) Lancaster, PGCE	
Resources required:	Key Maths book 8/2 revised, (2001), Baker, Hogan, Job and Verity, ISBN 9780748759859, Nelson Thornes; ¹ Geometry set; Scientific calculator.	

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	06/09/21	Graphs CH1 - Construction and interpretation of straight-line graphs
	2	13/09/21	Time, 24 hr clock timetables, distance–time graphs, average speed TMA
2	3	20/09/21	Mental Arithmetic CH2 - Powers and roots TMA
	4	27/09/21	Estimating. Powers and Make your own slide rule
3	5	04/10/21	Statistic CH3 - Pie charts with protractors
	6	11/10/21	Design of questionnaire, Investigation and survey TMA
4	7	18/10/21	Algebra CH4 - Investigation of number patterns leading to algebraic rules inverse operations
	8	25/10/21	Half Term
4	9	01/11/21	Substitution in harder expressions TMA
5	10	08/11/21	Negative numbers CH6 - Directed numbers, ordering, adding subtracting,
	11	15/11/21	Multiplying, dividing negative numbers Substitution in algebraic formulae, extending graphs TMA
6	12	22/11/21	Transformations CH5 - Reflection, translation,
	13	29/11/21	Centres of rotation, rotation and enlargement. Application to patterns, examples locally TMA

¹ Out of print but can be purchased from Amazon as pre-used
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9	14	06/12/21	Fractions CH9 - Percentage as a fraction, and of a quantity TMA
7	15	13/12/21	Angles CH7 - Revision of angles. Parallel lines and angles,
	16	20/12/21	Christmas Holiday
	17	27/12/21	Christmas Holiday
	18	03/01/22	Christmas Holiday
7	19	10/01/22	Angles in a polygon, bearings to and from a point TMA
8	20	17/01/22	Probability CH8 - Revision of probability as a measure of likelihood. Expectation.
	21	24/01/22	Sum of probabilities. Illustrating equally likely outcomes, sample space diagrams. TMA
10	22	31/01/22	Straight Lines CH10 - Patterns of points. Equations of lines, point of intersection
	23	07/02/22	Gradient and intercept forms. Investigation TMA
	24	14/02/22	Half Term
11	25	21/02/22	Ratio CH11 - Metric units of mass and volume leading to ratio
	26	28/02/22	Proportion. maps and scales TMA
12	27	07/03/22	Area CH12 - Area extended to Trapezium and compound shapes
	28	14/03/22	Enlargement extended to area. Scale factors of length and area TMA
13	29	21/03/22	Volume CH14 - Estimating volume/capacity of familiar objects. Extension to counting layers in a stack
	30	28/03/22	Volume of prisms. Practical packing of cuboids etc. TMA
	31	04/04/22	Easter Holiday
	32	11/04/22	Easter Holiday
	33	18/04/22	Easter Holiday
14	34	25/04/22	Statistics2 CH13 - Revision of averages, which to use. Data which is continuous and rounded off by measurement. Grouping data Stem and leaf diagrams
	35	02/05/22	Frequency polygons stem and leaf diagrams used to compare data and interpolate data. TMA
	36	09/05/22	Revision
	37	16/05/22	Exam Year 8
15	38	23/05/22	Algebra2 CH15 - Trial and improvement methods applied to linear and quadratic equations. Use of spreadsheet
	39	30/05/22	Half Term

15	40	06/06/22	Graphical representation of inequalities, open / closed intervals
	41	13/06/22	Solving linear inequalities. TMA
16	42	20/06/22	Graphs2 CH16 - Intersection of lines defined by equations, found graphically. Extensions to linear equations in general form.
	43	27/06/22	Problems leading to simultaneous equations solved graphically TMA