

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; Geometry set; Scientific calculator.	

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	07/09/20	Graphs CH1 - Construction and interpretation of straight-line graphs
	2	14/09/20	Time, 24 hr clock timetables, distance–time graphs, average speed TMA
2	3	21/09/20	Mental Arithmetic CH2 - Powers and roots TMA
	4	28/09/20	Estimating. Powers and Make your own slide rule
3	5	05/10/20	Statistic CH3 - Pie charts with protractors
	6	12/10/20	Design of questionnaire, Investigation and survey TMA
4	7	19/10/20	Algebra CH4 - Investigation of number patterns leading to algebraic rules inverse operations
	8	26/10/20	Half Term
4	9	02/11/20	Substitution in harder expressions TMA
5	10	09/11/20	Negative numbers CH6 - Directed numbers, ordering, adding subtracting,
	11	16/11/20	Multiplying, dividing negative numbers Substitution in algebraic formulae, extending graphs TMA
6	12	23/11/20	Transformations CH5 - Reflection, translation,
	13	30/11/20	Centres of rotation, rotation and enlargement. Application to patterns, examples locally TMA
9	14	07/12/20	Fractions CH9 - Percentage as a fraction, and of a quantity TMA
7	15	14/12/20	Angles CH7 - Revision of angles. Parallel lines and angles,
	16	21/12/20	Christmas Holiday
	17	28/12/20	Christmas Holiday

	18	04/01/21	Christmas Holiday
7	19	11/01/21	Angles in a polygon, bearings to and from a point TMA
8	20	18/01/21	Probability CH8 - Revision of probability as a measure of likelihood. Expectation.
	21	25/01/21	Sum of probabilities. Illustrating equally likely outcomes, sample space diagrams. TMA
10	22	01/02/21	Straight Lines CH10 - Patterns of points. Equations of lines, point of intersection
	23	08/02/21	Gradient and intercept forms. Investigation TMA
	24	15/02/21	Half Term
11	25	22/02/21	Ratio CH11 - Metric units of mass and volume leading to ratio
	26	01/03/21	Proportion. maps and scales TMA
12	27	08/03/21	Area CH12 - Area extended to Trapezium and compound shapes
	28	15/03/21	Enlargement extended to area. Scale factors of length and area TMA
13	29	22/03/21	Volume CH14 - Estimating volume/capacity of familiar objects. Extension to counting layers in a stack
	30	29/03/21	Easter Holiday
	31	05/04/21	Easter Holiday
	32	12/04/21	Easter Holiday
13	33	19/04/21	Volume of prisms. Practical packing of cuboids etc. TMA
14	34	26/04/21	Statistics2 CH13 - Revision of averages, which to use. Data which is continuous and rounded off by measurement. Grouping data Stem and leaf diagrams
	35	03/05/21	Frequency polygons stem and leaf diagrams used to compare data and interpolate data. TMA
	36	10/05/21	Revision
	37	17/05/21	Exam Year 8
15	38	24/05/21	Algebra2 CH15 - Trial and improvement methods applied to linear and quadratic equations. Use of spreadsheet
	39	31/05/21	Half Term
15	40	07/06/21	Graphical representation of inequalities, open / closed intervals
	41	14/06/21	Solving linear inequalities. TMA
16	42	21/06/21	Graphs2 CH16 - Intersection of lines defined by equations, found graphically. Extensions to linear equations in general form.
	43	28/06/21	Problems leading to simultaneous equations solved graphically TMA