

## Scope and Sequence Document for: Mathematics 7

Year:	7	Exam week for this course:	36
Tutor	Mrs Ann Humphreys	Last date for submission of internal exams:	
Tutor qualifications:	B Sc (Hons) Chemistry, Lancaster PGCE	IGCSE/A level Exam board & Specification: No:	n/a
Resources required:	Key Maths 7/2 revised, (2000), Baker, Bland, Hogan and Holt, ISBN 9780748755257, Nelson Thornes; Mathematical instruments; Calculator with $x^y$ key.		

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	04/09/17	<b>Statistics CH1</b> – tally charts, bar charts, pictograms; simple fractions of a circle leading to pie charts. Grouped data in bar charts
	2	11/09/17	Coordinates of the first quadrant; scatter diagrams; recognise simple correlation. <span style="float: right;">TMA</span>
2	3	18/09/17	<b>Statistics</b> - Student survey and report <span style="float: right;">TMA</span>
3	4	25/09/17	<b>Symmetry CH2</b> – mirror symmetry, examples in everyday life. Mirror lines at $45^\circ$
	5	02/10/17	Fractions of a rotation, clockwise and anti-clockwise rotation; rotational symmetry <span style="float: right;">TMA</span>
4	6	09/10/17	<b>Shape and Construction CH5</b> – geometry of polygons and circles
	7	16/10/17	Using compasses; congruent shapes <span style="float: right;">TMA</span>
	8	23/10/17	Half Term
5	9	30/10/17	<b>Number patterns CH3 &amp; 4</b> – factors, prime numbers, simple HCF, sequences, square, triangle numbers. Multiples and powers
	10	06/11/17	Compound operations on numbers, rounding off numbers, mental arithmetic. <span style="float: right;">TMA</span>
7	11	13/11/17	<b>3D work CH7</b> – representing 3D solids on plain paper, squared paper and isometric paper. Naming and describing and creating models of solids
	12	20/11/17	Reinforcing the use of compass and measurement <span style="float: right;">TMA</span>
8	13	27/11/17	<b>Probability CH8</b> – likelihood of events; probability estimation; relative frequency
	14	04/12/17	Games; equal likelihood and what is certainty <span style="float: right;">TMA</span>
6	15	11/12/17	<b>Decimals, Estimation and Calculators CH4 &amp; 6</b> – order of operations, recognition of errors in calculations
	16	18/12/17	Christmas Holiday
	17	25/12/17	Christmas Holiday
	18	01/01/18	Christmas Holiday

6	19	08/01/18	Development of decimal fractions. Addition, multiplication and division by whole numbers up to 10
	20	15/01/18	Decimals in problems; recurring decimals; terminating decimals TMA
9	21	22/01/18	<b>Algebra CH9</b> – use of symbols to represent variables and relationships; two stage formula
	22	29/01/18	Collecting terms; substitution in simple formula TMA
10	23	05/02/18	<b>Negative numbers CH11</b> – introduction to; application to coordinates
	24	12/02/18	Half Term
10	25	19/02/18	Graphs leading to multiplication and division of negative numbers TMA
11	26	26/02/18	<b>Angles CH10</b> – use of protractor; calculation of angles at a point and on a straight line
	27	05/03/18	Construction of triangles from data including isosceles and equilateral triangles TMA
13	28	12/03/18	<b>More algebra CH13</b> – inverse operations; order of operations
	29	19/03/18	Solutions of equations TMA
	30	26/03/18	<b>Length and Scale drawings CH12</b> – Metric and imperial lengths; scale drawings; equivalents
	31	02/04/18	Easter Holiday
	32	09/04/18	Easter Holiday
12	33	16/04/18	<b>Length and Scale drawings CH12</b> – Metric and imperial lengths; scale drawings; equivalents
	34	23/04/18	Reading maps and plans; scales; 3D modelling TMA
	35	30/04/18	<b>REVISION</b>
	36	07/05/18	Exam Year 7
14	37	14/05/18	<b>Area and Perimeter CH14</b> – by counting squares; by calculation; units of area; areas of triangles and parallelograms
	38	21/05/18	Areas of compound shapes TMA
	39	28/05/18	Half Term
15	40	04/06/18	<b>Fractions CH15</b> – Introduction; using a calculator
	41	11/06/18	Fractions of quantities; relationship between fractions, decimals and percentages TMA
16	42	18/06/18	<b>Statistics CH16</b> – averages; mean; mode; median; frequency tables
	43	25/06/18	Range as a measure of spread. TMA