

Year 10

SEPTEMBER				OCTOBER				NOVEMBER	
Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7	Wk8	Wk9	Wk10
Comp. 1 Properties of number 3.1 3.2 3.3 3.4 3.5 3.6 and 3.7						External Assignment Comp. 1	Half term	Comp. 2 The four operations 3.1 3.2	
NOVEMBER			DECEMBER				JANUARY		
Wk11	Wk12	Wk13	Wk14	Wk15	Wk16	Wk17	Wk18	Wk19	Wk20
Comp. 2 The four operations 3.3 3.4 3.5 and 3.6 3.7				External Assignment Comp. 2	Christmas Holiday	Christmas Holiday	Comp. 3 Ratio 3.1 and 3.2 3.3 3.4		
JANUARY	FEBRUARY				MARCH				
Wk21	Wk22	Wk23	Wk24	Wk25	Wk26	Wk27	Wk28	Wk29	Wk30
Comp. 3 Ratio 3.5 3.6 3.7		External Assignment Comp. 3	Half term	Comp. 4 Money 3.1 and 3.2 3.3 and 3.4 3.5 3.6 and 3.7				External Assignment Comp. 4	Easter Holiday
APRIL				MAY				JUNE	
Wk31	Wk32	Wk33	Wk34	Wk35	Wk36	Wk37	Wk38	Wk39	Wk40
Easter Holiday	Comp. unit 5 The calendar and time 3.1 3.2 and 3.3 3.4 3.5				Comp. unit 5 3.6 and 3.7	Half term	Comp. 6 Measures 3.1 3.2 and 3.3 3.4		
JUNE			JULY						
Wk41	Wk42	Wk43	Wk44	Wk45					
Comp. 6 Measures 3.5 and 3.6 3.7		External Assignment Comp. 6	Revision and time to complete missing work						

AQA ELC Mathematics (5930) Route Map – [Year 11] Entered in January year 11

Year 11

SEPTEMBER				OCTOBER				NOVEMBER		
<u>Wk1</u>	<u>Wk2</u>	<u>Wk3</u>	<u>Wk4</u>	<u>Wk5</u>	<u>Wk6</u>	<u>Wk7</u>	<u>Wk8</u>	<u>Wk9</u>	<u>Wk10</u>	
Comp. 7 Geometry				Comp. 7 Geometry			External Assignment Comp. 7	Half Term	Comp. 8 Statistics	
3.1	3.2	3.3	3.4	3.5	3.6	3.7		3.1	3.2	
NOVEMBER			DECEMBER							
<u>Wk11</u>	<u>Wk12</u>	<u>Wk13</u>	<u>Wk14</u>	<u>Wk15</u>	<u>Wk16</u>	<u>Wk17</u>				
Comp. 8 Statistics					External Assignment Comp. 8	Christmas Holiday	Christmas Holiday			
3.3	3.4	3.5	3.6	3.7						

Component 1 – Properties of number

Learning outcome	Additional Learning outcome	Route to GCSE	GCSE ref.
3.1 Read and write numbers up to 1000			
3.2 Order and compare numbers up to 1000		Introduce negative numbers Order positive and negative numbers	N1
3.3 Recognise place value in 3-digit numbers		Introduce numbers larger than 1000 Introduce decimal numbers Understand and use place value	N2
3.4 Round numbers less than 1000 to the nearest 10		Introduce decimal places Round numbers to specified number of decimal places	N15
3.5 Round numbers to the less than 1000 to the nearest 100		Introduce significant figures Round numbers to specified number of significant figures	N15
3.6 Find 10 or 100 more or less than a given number	2.3 Count from 0 in steps of 2, 3 and 5		
3.7 Recognise and use multiples of 2, 3, 4, 5, 8, 10, 50, 100	2.5 Understand and identify odd and even numbers	Introduce prime numbers, factors, common factors, common multiples, prime factor decomposition	N4

Component 2 – The four operations

Learning outcome	Additional learning outcome	Route to GCSE	GCSE ref.
3.1 Add and subtract using 3-digit numbers		Add and subtract using negative numbers Apply the operations of addition and subtraction in context, including negative numbers	N2
3.2 Multiply a 2-digit whole number by a single digit whole number		Multiply using negative numbers Apply the operations of multiplication in context, including negative numbers	N2
3.3 Divide a 2-digit whole number by a single digit whole number		Divide using negative numbers Apply the operations of division, including negative numbers	N2, N3
3.4 Use and interpret +, -, ×, ÷ and = in real-life situations to solve problems		Mixed problems, including negative numbers	N2
3.5 Use inverse operations to find missing answers		Recognise and use the relationships between operations. Use cancelling to simplify calculations	N3
3.6 Estimate the answer to a calculation		Estimate more difficult calculations by rounding	N14
3.7 Recall and use multiplication facts for the 3, 4 and 8 multiplication tables	2.5 Recall and use multiplication facts for the 2, 5 and 10 multiplication tables	Begin to divide whole numbers by 10 or 100 and multiply a decimal number by 10 or 100	R9

Component 3 - Ratio

Learning outcome	Additional learning outcome	Route to GCSE	GCSE Ref.
3.1 Identify or show unit fractions up to one tenth of a quantity up to 100		Begin to understand a percentage as being one hundredth of an amount	N12, R9
3.2 Work out unit fractions to one tenth of a number up to 100		Work out 1% of a number	N12
3.3 Identify or show any number of thirds, quarters, fifths or tenths of a quantity		Define percentage as 'number of parts per hundred'	N12, R9
3.4 Work out any number of thirds, quarters, fifths or tenths of an amount	2.4 Work out amounts 2, 3 or 4 times the size of a given amount	Calculate any fraction of any amount, include a percentage of a number	N12
3.5 Recognise and identify equivalent fractions		Be able to cancel fractions to lowest terms. Compare fractions by changing to the same denominator	N3
3.6 Add and subtract with the same denominator within one whole	2.3 Count in fractions of one half or one third or one quarter	Add and subtract with fractions with different denominators and with mixed numbers	N8
3.7 Work out amounts 5, 8, or 10 times the size of a given amount			R2

Component 4 - Money

Learning outcome	Additional learning outcome	Route to GCSE	GCSE Ref.
3.1 Appreciate the purchasing power of amounts of money (notes)			
3.2 Exchange notes for an equivalent value in coins			
3.3 Use decimal notation for money	2.2 Convert from pence to pounds and vice versa		
3.4 Interpret a calculator display			
3.5 Solve real life problems involving what to buy and how to pay		Use more complicated real life problems involving money	N13, G14
3.6 Add amounts of money and give change		Best buy calculations. Knowledge and use of terms used in household finance	N2, N13
3.7 Carry out investigations involving money			

Component 5 – The calendar and time

Learning outcome	Additional learning outcome	Route to GCSE	GCSE Ref.
3.1 Solve problems involving time	1.3 Order familiar events		
3.2 Know that there are 365 days in a year, 366 days in a leap year, 12 months in a year and 52 full weeks in a year	1.1 Know the days of the week and their order 2.1 Know the seasons and months and their order		
3.3 Use a calendar and write the date correctly (day/month/year)	2.2 Know that 1 week = 7 days; 1 day = 24 hours; 1 hour = 60 minutes; 1 minute = 60 seconds		
3.4 Tell and write the time from an analogue clock, including using Roman numerals from I to XII			
3.5 Understand and use the 12-hour and 24-hour clock systems and convert from one system to the other			
3.6 Convert between hours, minutes and seconds		Use standard units of time and convert freely between them	N13, R1, G14
3.7 Add up to three lengths of time given in minutes and hours	2.5 Find the difference between two times given in hours, half hours and quarter hours		

Component 6 - Measures

Learning outcome	Additional learning outcome	Route to GCSE	GCSE Ref.
3.1 Add lengths, capacities and weights and compare the total to another total or a requirement	2.1 Choose appropriate standard units of length, capacity and weight		
3.2 Convert standard units of length, capacity and weight		Use standard units of length, capacity and mass and convert freely between them	N1, N2, N13, G14
3.3 Compare and order lengths, capacities and weights in different standard units		Use standard units of length, capacity and mass and convert freely between them	N1, N2, N13, G14
3.4 Measure the perimeter of a simple shape		Calculate perimeters of rectangles and composite shapes Calculate the area of rectangles and composite shapes	N13, G14, G15, G17
3.5 Choose an appropriate measuring instrument	2.3 Select a possible length, capacity or weight for a given item		
3.6 Read values from an appropriate scale	1.3 Describe capacity in fractions 2.5 Estimate the weight, capacity or weight of given items		N13, G14
3.7 Read and compare temperatures including temperatures with negative values		Solve problems of temperature using negative and positive temperatures	N13, G14

Learning outcome	Additional learning outcome	Route to GCSE	GCSE Ref.
<p>3.1 Recognise and name prisms, cylinders and cones</p>	<p>1.1 Recognise and name squares, rectangles, triangles, circles and cubes</p> <p>2.1 Recognise and name shapes including pentagons, hexagons and octagons and identify a right-angled triangle from a set of triangles</p> <p>2.2 Recognise and name cuboids, pyramids and spheres</p> <p>2.4 Describe the properties of solids</p>	<p>Identify properties of the faces, surfaces, edges and vertices of solids</p> <p>Know names and properties of types of triangles and names of polygons</p>	<p>G12</p>
<p>3.2 Draw lines of symmetry on shapes or pictures</p>		<p>Use conventional terms and notations</p>	<p>G1, G4</p>
<p>3.3 Recognise and draw nets of cubes and cuboids</p>		<p>Construct and interpret plans and elevations of 3D shapes</p>	<p>G13</p>
<p>3.4 Identify whether an angle is less or more than a right angle</p>		<p>Measure angles in geometric figures. Draw angles.</p> <p>Apply the properties of angles in a triangle, angles at a point on a straight line, angles at a point</p>	<p>G3,G15</p>

Learning outcome	Additional learning outcome	Route to GCSE	GCSE Ref.
<p>3.5 Identify horizontal, vertical and parallel lines</p>	<p>1.2 Compare and order a group of shapes or pictures or similar shapes of different size and recognise congruent shapes</p> <p>2.3 Describe the properties of 2D shapes including straight and curved edges</p>	<p>Use conventional terms and notations</p> <p>Use the standard conventions for labelling and referring to the sides and angles of triangles</p>	<p>G1</p>
<p>3.6 Denote the position of a point by its coordinates or identify a point or item given its coordinates</p>	<p>1.3 Use and understand positional vocabulary</p>	<p>Work with co-ordinates in all four quadrants</p>	<p>A8</p>
<p>3.7 Use North (N), East (E), South (S), and West (W) to give directions or positions from a map</p>		<p>Use scale factors, scale diagrams and maps</p> <p>Interpret maps and scale drawings and use of bearings, including the eight compass point bearings.</p>	<p>R2</p>

Component 8 - Statistics

Learning outcome	Additional learning outcome	Route to GCSE	GCSE Ref.
3.1 Construct and interpret bar charts with the vertical axis scaled in ones or twos			S2
3.2 Construct and interpret pictograms where one picture represents more than one item			S2
3.3 Extract numerical information from lists, tables, diagrams and charts	1.1 Sort and classify objects using a single criterion 2.1 Sort and classify objects using more than one criterion	Interpret and construct tables, charts and diagrams	S2
3.4 Complete a frequency table given the original list of results	2.2 Collect information by survey		S2
3.5 Complete a tally chart and the resulting frequency table			S2
3.6 Compare two or more diagrams		Begin to interpret and compare distributions using the median, mean and mode	S2
3.7 Solve one-step and two-step problems based on statistical information			S2