

## Key Stage 3

### Subject Assessment Criteria: Math Year 7

Level	Assessment Descriptor											
Year 7	Unit 1		Unit 2		Unit 3		Unit 4		Unit 5		Unit 6	
%	Lower	Higher	Lower	Higher	Lower	Higher	Lower	Higher	Lower	Higher	Lower	Higher
9												
8												
7												
6												
5												
4		86 - 100	94 - 100	91 - 100		97 - 100	97-100	71-100				
3	84 - 100	59 - 85	64 - 93	64 - 90	94 - 100	75 - 96	56-96	11-70				
2	16 - 83	10 - 58	29 - 63	26 - 63	24 - 93	19 - 74	1-55	1-10				
1	0 - 15	0 - 9	1 - 28	1 - 25	1 - 23	1 - 18						

To achieve each level the above percentage of the learning outcomes needs to have been achieved.

Year 7 Unit 1		Year 7 Unit 2		Year 7 Unit 3	
Topic	Learning Objective	Topic	Learning Objective	Topic	Learning Objective
<b>Shape</b>		<b>Shape</b>		<b>Number</b>	
Measures		2D Shapes		Decimals	
Metric Units	units of length	Perimeter	rectangle	Ordering	Ordering decimals
	units of mass		polygons	Written Calculations	add in column
	units of capacity		compound shapes		subtract in column
	units of area	3D Shapes			multiply by whole number
	units of volume	Classifying	names of 3D solids		divide by whole number
Converting Units	metric		vertices, faces, edges		multiply 2 decimals
	area	2D representations	nets		divide by a decimal
	volume		isometric drawings		wordy questions
2D Shapes			plans and elevations	Money	
Classifying	names of polygons	Volume	by counting cubes	Calculations	application of 4 operations
	regular, convex, concave		cuboids		wordy problems
	types of triangles		triangular prisms	Best buys	compare using LCM methods
	Properties of triangles		Cross Sectional Area x Length		compare using unitary methods
	types of quadrilaterals		find lengths/CSA from given volume	Negative Number	
	geometric properties of quadrilaterals		compound solids	Calculations	single sign add and subtract
Area	by counting squares				double sign add and subtract
	rectangles				multiply
	triangles				Divide
	parallelogram			BODMAS	
	trapezium			Calculations	4 operations
	compound shapes				brackets and powers
	find lengths from given area				fraction line and nested brackets
Angles	angle types				Use of calculator
	drawing			<b>Algebra</b>	
	measuring			Graphs	
	360 around a point			Axes	Draw axes
	180 on straight line			Coordinates	plot coordinates
	90 in a right angle				read coordinates
	vertically opposite				complete coordinate polygons
	interior sum of triangles and quadrilaterals				
	exterior angle of triangle				

Year 7 Unit 4		Year 7 Unit 5		Year 7 Unit 6	
Topic	Learning Objective	Topic	Learning Objective	Topic	Learning Objective
<b>Number</b>		<b>Algebra</b>		<b>Shape</b>	
Place Value		Sequences		Symmetry	
Ordering	order whole numbers	Linear sequences	find next Units	Reflective symmetry	identify lines of symmetry
Calculating	multiply by positive powers of 10		find Unit to Unit rule		draw a shape with a given number of lines of symmetry
	multiply by negative powers of 10		generate from nth Unit expression	Rotational symmetry	identify order of rotational symmetry
	divide by positive powers of 10		find nth Unit		draw a shape with a given order of rotational symmetry
	divide by negative powers of 10		nth Unit of patterns (matchsticks etc)	Transformations	
Integers		<b>Shape</b>		Reflections	reflect in a mirror line
Written calculations	add in column	3D shapes			using the equation of a line
	subtract in column	Surface Area	from a net		describe a reflection
	multiply in column		cuboids	Rotations	without a centre of rotation
	multiply in grid		triangular prisms		with centre given
	divide with short bus shelter		other 3D solids		describe a rotation
	wordy questions	Scale		Translations	in words
Number Types		Scale drawing	read a scale drawing		with vectors
Factors multiples and primes	list factors of a number		make a scale drawing		describe a translation
	list multiples of a number	Map scales	find distance from a map	Combined transformations	multiple steps
	list prime numbers		map scale as a ratio		perform combined transformations and describe as a single transformation
	find product of prime factors	Transformations			
	find HCF	Enlargements	scale factors		
	find LCM		without centre of enlargement		
	HCF & LCM with Venn Diagrams		using guide lines		
Types of number	Square numbers, Triangle numbers		by counting squares		
	Fibonacci series		fractional scale factors		
Powers and Roots			negative scale factors		
Squares, cubes and roots	square roots of whole numbers cube numbers		describing enlargements		
	cube roots of whole numbers				
	use of calculator				
<b>Shape</b>					
Measures					
Time	12 hr clock, 24 hr clock, telling time				
	Timetables, time calculations.				

