MATHS Curriculum and Assessment Map 2018-2019 Stage 7

Stage	Curriculum content/unit	Method of	Content assessed	Source of	Method for
7		assessment		assessment	grade
/					boundaries
Aut 1	Numbers and the number system (12 HOURS) Calculating (16 HOURS)	7M1 BAM 7M2 BAM	Use positive integer powers and associated real roots • know the meaning of power notation • know the meaning of notation for square roots and cube roots • calculate with powers and roots without a calculator • use a scientific calculator to work out powers and roots • write the value of square (and cube) roots when the solution is not an integer • Apply the four operations with decimal numbers • add decimals • multiply decimals • divide a whole number by a decimal • divide a decimal by a decimal	GCSE papers and pixl maths Kangaroo math BAM 'build a mathematician' indicators Kangaroo maths assessment package	Percentage to BAM tests scale <30 =0, 30-<60 = 1, 60 – 100 = 2 relate to individual stage grade key
Aut 2	Checking, approximating and estimating (3 HOURS) Counting and comparing (9HOURS) Visualising and constructing (4 HOURS)	7M6 BAM 7M13 BAM END OF TERM ASSESSMENT	Check calculations using approximation, estimation or inverse. operations approximate numbers by rounding to the nearest 10, 100, 1000 approximate by rounding to any number of decimal places approximate by rounding to the first significant figure in any number understand estimating as the process of finding a rough value of a calculation estimate calculations by rounding numbers to one significant figure understand and use geometric notation for labelling angles, lengths, equal lengths and parallel lines recognise and can use the notation for labelling lengths ercognise and can use the notation for labelling angle recognise and can use the notation for labelling angle		
Spr 1	Investigating properties of shapes (5 HOURS) Algebraic proficiency: tinkering (8 HOURS) Exploring fractions, decimals and percentages (4 HOURS) Proportional reasoning (4 HOURS)	7M7 BAM 7M8 BAM 7M9 BAM 7M3 BAM	 Simplify and manipulate expressions by collecting like terms know the meaning of the word 'variable' know the meaning of the word 'term' know the meaning of the word 'expression' identify like terms identify like terms in more complex cases simplify expressions by adding like terms create expressions Simplify and manipulate expressions by multiplying a single term over a bracket multiply a single term over a bracket use powers to write the result of squaring a variable make connections between patterns and expressions construct simple expressions involving brackets Substitute numbers into a simple formula substitute numbers into a simple formula substitute numbers into a simple formula 		

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Spr 2 Sum 1	Pattern sniffing (7 HOURS) Measuring space (3HOURS) Investigating angles (3 HOURS) Calculating fractions, decimals and percentages (5 HOURS) Calculating fractions, decimals and percentages (10 HOURS) Solving equations and inequalities (5 HOURS) Calculating space (5 HOURS)	7M4 BAM END OF TERM ASSESSMENT 7M5 BAM 7M10 BAM 7M12 BAM	 substitute numbers into a simple formula involving squaring create a simple formula from given information Write a quantity as a fraction or percentage of another write one amount as a fraction of another write a fraction in its lowest terms find a fraction equivalent to another write one amount as a percentage of another convert between units when writing one amount as a fraction of another use a multiplicative reasoning to interpret percentage change use a multiplier to find a percentage of an amount identify a multiplier to increase an amount by a percentage use a multiplier to increase an amount by a percentage identify a multiplier to decrease an amount by a percentage identify a multiplier to decrease an amount by a percentage find a multiplier to decrease an amount by a percentage identify a multiplier to decrease an amount by a percentage add mixed numbers find a multiplier when the original and the new amount are known state a percentage change when the multiplier is known Add, subtract, multiply and divide with fractions and mixed numbers add mixed numbers subtract mixed numbers divide a whole number by a fraction multiply mixed numbers divide a fraction by a fraction divide a fraction by a fraction know how to solve an equation by balancing both sides solve a two step equation solve a two step equation solve a two step equation 	
	Mathematical movement (7 HOURS)	78411 DANA	 solve a three step equation know how to deal with fractions as solutions construct an equation from given information Calculate surface area of cubes and cuboids visualise the surfaces of a cuboid use the formula for the area of a rectangle find the surface area of a cuboid when the three dimensions are known use the surface area of a cuboid to find a missing dimension in a cuboid state the correct units for a solution to a problem 	
Sum 2	Presentation of data (6 HOURS) Measuring data (7 HOURS)	7M11 BAM END OF YEAR ASSESSMENT	 plot the graphs of lines parallel to the axes, y = x and y = -x plot the graph of y = x plot the graph of y = -x name graphs of lines parallel to the axes recognise the graph of y = x I recognise the graph of Y = -x 	

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