

MATHS Curriculum and Assessment Map 2018-2019 Stage 6

Stage 6	Curriculum content/unit	Method of assessment	Content assessed	Source of assessment	Method for grade boundaries
Aut 1	Numbers and the number system (12 HOURS) Checking, approximating and estimating (7 HOURS) Calculating (4 hours)	6M1 BAM	Multiply and divide numbers with up to three decimal places by 10, 100, and 1000 <ul style="list-style-type: none"> multiply whole numbers by 10, 100, 1000 divide whole numbers by 10, 100, 1000 multiply decimals by 10, 100, 1000 divide decimals by 10, 100, 1000 the effect of multiplying and dividing by 10, 100, 1000 	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	Calculating (7 HOURS) Calculating: division (7 HOURS) Visualising and constructing (8 HOURS)	6M2 BAM END OF TERM ASSESSMENT	Use long division to divide numbers up to four digits by a two-digit number <ul style="list-style-type: none"> use Long division to divide by a single digit number use long division to divide by a two digit number extend beyond the decimal point when using long division interpret the remainder of a division 		
Spr 1	Investigating properties of shapes (8 HOURS) Algebraic proficiency: using formulae (4 HOURS) Exploring fractions, decimals and percentages (8 HOURS)	6M3 BAM, 6M6 BAM	Use simple formulae expressed in words <ul style="list-style-type: none"> substitute numbers into a one step formula written in words substitute numbers into a two step formula written in words interpret the information given in a formula written in words understand the order of operations in a formula written in words create a formula from given information Write a fraction in its lowest terms by cancelling common factors <ul style="list-style-type: none"> understand that two fractions can be equivalent Identify a common factor of two numbers simplify a fraction Write a fraction in its lowest terms confirm that a fraction is written in its lowest terms 		
Spr 2	Proportional reasoning (6 HOURS) Pattern sniffing (5 HOURS) Measuring space (6 HOURS)	6M5 BAM, 6M4 BAM END OF TERM ASSESSMENT	Use simple ratio to compare quantities <ul style="list-style-type: none"> interpret a statement involving a ratio in words create a statement involving a ratio in words use a statement about ratio to make comparisons Generate and describe linear number sequences <ul style="list-style-type: none"> identify a linear sequence find the next term in a linear sequence find a missing term in a linear sequence generate a linear sequence from its description describe a linear sequence 		
Sum 1	Investigating angles (4 HOURS) Calculating fractions, decimals and percentages (12 HOURS) Solving equations and inequalities (4 HOURS)	6M10 BAM, 6M7 BAM, 6M8 BAM, 6M9 BAM	Solve missing angle problems involving triangles, quadrilaterals, angles at a point and angles on a straight line <ul style="list-style-type: none"> calculate a missing angle at a point on a straight line calculate a missing angle at a point calculate a missing angle in a triangle calculate a missing angle in a quadrilateral calculate a missing angle in an isosceles triangle Add and subtract fractions and mixed numbers with different		

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			<p><u>denominators</u></p> <ul style="list-style-type: none"> • choose a common denominator • transform a calculation using equivalent fractions • add fractions with different denominators • subtract fractions with different denominators • Add mixed numbers with different denominators • subtract mixed numbers with different denominators <p><u>Multiply pairs of fractions in simple case</u></p> <ul style="list-style-type: none"> • multiply a fraction by a whole number • multiply two unit fractions • multiply two fractions • simplify a fraction <p><u>Find percentages of quantities</u></p> <ul style="list-style-type: none"> • find 25%, 50%, 75% of an amount • find 10% of an amount • find multiples of 10% of an amount (10%, 20%, 30%, 40%, ...) • find multiples of 5% of an amount (5%, 10%, 15%, 20%, 25%, ...) • use percentages to compare amount 		
Sum 2	<p>Calculating space (8 HOURS)</p> <p>Mathematical movement (4 HOURS)</p> <p>Presentation of data (4 HOURS)</p> <p>Measuring data (4 HOURS)</p>	<p>6M11 BAM, 6M12 BAM, 6M13 BAM END OF YEAR ASSESSMENT</p>	<p><u>Calculate the volume of cubes and cuboids</u></p> <ul style="list-style-type: none"> • know that volume is measured in cubes • know how to find the volume of a cube or cuboid • find the volume of a cube or cuboid when the three dimensions are known • use the Volume of a cuboid to find a missing dimension • state the correct units for a solution to a problem <p><u>Use coordinates in all four quadrants</u></p> <ul style="list-style-type: none"> • read coordinates in the first quadrant • plot coordinates in the first quadrant • read coordinates in all four quadrants • plot coordinates in all four quadrants • interpret coordinates <p><u>Calculate and interpret the mean as an average of a set of discrete data</u></p> <ul style="list-style-type: none"> • understand the meaning of 'average' • understand the concept of the mean • calculate the mean of a set of numbers • interpret the mean of a set of numbers • find a missing number in a set of data when the mean is known 		

