

Year 12 Resit Level 2 ~ Curriculum Map for Maths

What are the intended aims for this year's curriculum? To revise all of the GCSE Maths content learnt during year 9,10 and 11.						
	Term 1	Term 2	Resit Option	Term 3	Term 4	Term 5
	Topic(s): Revision of Units 1-5	Topic(s): Revision of Units 6-10		Topic(s): Revision of Units 11-14	Topic(s): Revision of Units 15-20	Topic(s): Revision of Units 21-24
'Big idea(s)' / fundamental concepts	Number Expressions Angles Averages & Range Decimals	2D Shapes Equations Fractions Transformations Formulae	Opportunity to resit given in November should students wish to do this.	Percentages Presenting Data 3D Shapes Sequences	Ratio and Proportion Algebraic Graphs Measures Inequalities Powers and Roots Pythagoras & Trigonometry	Probability Constructions & Loci Simultaneous Equations Vectors
Knowledge to be learnt	Place value, add and subtract, multiply and divide, expand and factorise single brackets, substitution, directed numbers, collecting like terms, draw and measure angles, types of angles, angles in triangles/quadrilateral, mean, median, mode, range, reading scales, using a calculator, multiplying and dividing by powers of 10.	Area and perimeter of rectangle, triangle, parallelogram, trapezium, parts of a circle, solving one and two step equations, forming expressions, four operations with fractions, shading fractions, fractions of an amount, simplifying fractions, enlargement, reflection, rotation, translation, symmetry, rotational symmetry and substitute in formulae and expressions.		Finding percentage of an amount, ordering percentages, decimals and fractions, two-way tables, bar charts, pictograms, plans and elevations, faces/edges/vertices, surface area and volume of cuboids, find missing number in a sequence, patterns, function machines and inverse.	Share a ratio, unitary method, currency conversion, change a recipe, draw linear graphs, find a midpoint, plot coordinates, covert between metric units, use conversion graphs, read bus/train timetables, solving one step inequalities, inequalities in a list and on a number line, squares and cubes, apply laws of indices, writing numbers in standard form, Pythagoras' theorem.	Probability, relative frequency, construction of triangles – all types, solving equations, draw vectors.
Key vocabulary	<u>Unit 1</u> Operation, factor, multiple, prime, rounding. <u>Unit 2</u> Expand, binomial, expressions, substitution, indices, bracket, negative, identity. <u>Unit 3</u> Bearing, angle, parallel, interior, exterior, triangle, quadrilateral, perpendicular <u>Unit 4</u> mean, median, mode, range, frequency, estimate, spread. <u>Unit 5</u> Bound, significant figures, rounding, place value, estimate, approximate	<u>Unit 6</u> area, perimeter, circumference, parallelogram, trapezium, circle, chord, tangent, radius, diameter. <u>Unit 7</u> Equation, solve, bracket, term, trial and improvement, expand <u>Unit 8</u> Numerator, denominator, mixed number, improper fraction, reciprocal <u>Unit 9</u> translation, reflection, rotation, enlargement, transformation, scale factor, vector, congruent, hypotenuse, similarity. <u>Unit 10</u> Formulae, expression, equation, identity, substitution, rearrange, subject,		<u>Unit 11</u> Compound interest, percentage, increase, decrease, equivalent, <u>Unit 12</u> quantitative, qualitative, questionnaire, correlation, sample, bias, frequency polygon, population, interpolate, extrapolate, outlier. <u>Unit 13</u> volume, vertices, edges, faces, plan, elevation, surface area, prism, net, cylinder, pyramid, sphere, cone <u>Unit 14</u> nth term, sequence, linear, output, geometric, arithmetic, quadratic, term-to-term, position-to-term.	<u>Unit 15</u> ratio, conversion, scale, unitary, proportion, equivalent <u>Unit 16</u> quadratic, function, coordinate, gradient, parallel, y-intercept, midpoint, roots, cubic, reciprocal. <u>Unit 17</u> metric, imperial, speed, conversion, units, mass, density, volume, velocity, proportion. <u>Unit 18</u> inequality, greater than, less than, equal, integer. <u>Unit 19</u> cubed, square root, reciprocal, power, indices, standard form, estimate, standard form <u>Unit 20</u> Pythagoras, hypotenuse, adjacent, opposite, trigonometry, sine, cosine, tangent ratios	<u>Unit 21</u> independent, experimental, theoretical, mutually exclusive, relative, frequency. <u>Unit 22</u> construct, perpendicular, bisector, region, loci, segment, equidistant. <u>Unit 23</u> simultaneous equations, elimination <u>Unit 24</u> vector, magnitude, direction, scalar
The role of reading and comprehension	Decoding exam questions that are set for homework to decide what method to use.	Decoding exam questions that are set for homework to decide what method to use.		Decoding exam questions that are set for homework to decide what method to use.	Decoding exam questions that are set for homework to decide what method to use.	Decoding exam questions that are set for homework to decide what method to use.
The role of independent extended writing	N/A	N/A		N/A	N/A	N/A
The role of maths/ numeracy	Embedded	Embedded		Embedded	Embedded	Embedded
Links to careers/ aspirations	Scout leader and D of E co-ordinator, Map reading Statistician, Engineering, Interior Design, Builders, Engineers.	Banker, Stock Broker, Town Planners, Carpenter, Carpet Fitter.		Medicine, Pharmacy, Politics Sports, Business.	Engineering, Any statistics related job, Construction.	Architect, Carpenter.
Core skills <i>A skill is a performance built on what a person knows</i>	Place value, add and subtract, multiply and divide, expand and factorise single brackets, substitution, directed numbers, collecting like terms, draw and measure angles, types of angles, angles in triangles/quadrilateral, mean, median, mode, range, reading scales, using a calculator, multiplying and dividing by powers of 10.	Area and perimeter of rectangle, triangle, parallelogram, trapezium, parts of a circle, solving one and two step equations, forming expressions, four operations with fractions, shading fractions, fractions of an amount, simplifying fractions, enlargement, reflection, rotation, translation, symmetry, rotational symmetry and substitute in formulae and expressions.		Finding percentage of an amount, ordering percentages, decimals and fractions, two-way tables, bar charts, pictograms, plans and elevations, faces/edges/vertices, surface area and volume of cuboids, find missing number in a sequence, patterns, function machines and inverse.	Share a ratio, unitary method, currency conversion, change a recipe, draw linear graphs, find a midpoint, plot coordinates, covert between metric units, use conversion graphs, read bus/train timetables, solving one step inequalities, inequalities in a list and on a number line, squares and cubes, apply laws of indices, writing numbers in standard form, Pythagoras' theorem.	Probability, relative frequency, construction of triangles – all types, solving equations, draw vectors.
Dept. enrichment activities	Revision sessions are on every week at school. Lunch time drop in MA17 every lunch time	Revision sessions are on every week at school. Lunch time drop in MA17 every lunch time		Revision sessions are on every week at school. Lunch time drop in MA17 every lunch time	Revision sessions are on every week at school. Lunch time drop in MA17 every lunch time	Revision sessions are on every week at school. Lunch time drop in MA17 every lunch time

Home learning opportunities	Use the maths packs in the Student shared area > Maths > GCSE REVISION > REVISION PACKS to practise exam questions on the topics that have been revised this term. Repetition of questions is the only way with Mathematics.	Use the maths packs in the Student shared area > Maths > GCSE REVISION > REVISION PACKS to practise exam questions on the topics that have been revised this term. Repetition of questions is the only way with Mathematics.		Use the maths packs in the Student shared area > Maths > GCSE REVISION > REVISION PACKS to practise exam questions on the topics that have been revised this term. Repetition of questions is the only way with Mathematics.	Use the maths packs in the Student shared area > Maths > GCSE REVISION > REVISION PACKS to practise exam questions on the topics that have been revised this term. Repetition of questions is the only way with Mathematics.	Use the maths packs in the Student shared area > Maths > GCSE REVISION > REVISION PACKS to practise exam questions on the topics that have been revised this term. Repetition of questions is the only way with Mathematics.
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