

2009-2010

Key stage 4 Higher

Term / Week	<u>Description/ Lesson Contents/ Objective</u>	Homework/ Assessment
Autumn term (Year 10)	<p>Students follow London GCSE Edexcel syllabus covering the four attainment targets of Number & Algebra, Shape & Space, Data Handling and Applications of Mathematics. The Higher tier course is aimed at sets 1-5 and covers grades D to A* and is assessed with a non-Calculator and calculator exam at the end of Year 11.</p>	40 mins-1 hour per week
Week 1	<p><u>MULTIPLICATION & DIVISION</u> <u>SQUARES, CUBES, SQUARE ROOTS AND CUBE ROOTS</u> (1 lesson) Revise the use of brackets - BODMAS. Revise recognising even, odd, prime and multiples. Square, cubes and square roots and cube roots.</p>	
Week 1	<p><u>INDEX NOTATION</u> <u>FACTORS</u> <u>PRIME FACTORS</u> (2 lessons) Use of the index notation, for numbers and use of letters. Revise factors Introduce the idea of negative & fractional indices</p>	
Week 2	<p><u>STANDARD FORM</u> <u>CALCULATIONS WITH STANDARD FORM</u> (2 lessons) Introduce standard form. Writing in S.F. and visa versa- normal decimal format. Use of calculator</p>	
Week 2	<p><u>USING FORMULAE</u> <u>CONSTRUCT & USE SIMPLE FORMULAE</u> (2 lessons) Simple substitution into formulae. Revise BODMAS Construction of formulae for simple perimeters Formulas</p>	
Week 3	<p><u>REVISION OF NEGATIVE NUMBERS</u> <u>SUBSTITUTION INTO FORMULAE</u> <u>MORE COMPLEX FORMULAE</u> (2 lessons)</p>	

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<p>Week 3</p>	<p><u>CHANGING THE SUBJECT</u> <u>FURTHER CHANGING THE SUBJECT</u> (2 lessons) Change of subject Type with fractional expressions The idea of the reciprocal/ the root</p>	<p>40 mins- 1 hour per week</p>
<p>Week 4</p>	<p><u>EXPANSION OF BRACKETS</u> <u>FACTORISATION</u> (1 lesson) Multiply out a simple linear bracket by simple number/letter. Collection where necessary. Factorising out of simple one term</p>	
<p>Week 4</p>	<p><u>ALGEBRAIC MANIPULATION</u> <u>ALGEBRAIC FRACTIONS</u> (2 lessons) Change of subject, has the required letter on both sides of the expression.</p>	
<p>Week 4</p>	<p><u>MEASURING ANGLES</u> <u>LINE & ROTATIONAL SYMMETRY</u> (1 lesson) Measure and draw angles Construct a simple triangle and quadrilateral Line & rotational symmetry</p>	
<p>Week 5</p>	<p><u>ANGLE GEOMETRY</u> (1 lesson) Angles at a point, angles on a straight line, angles in a triangle, angles of an equilateral triangle, isosceles triangle and angles of a quadrilateral.</p>	
<p>Week 5</p>	<p><u>ANGLES WITH PARALLEL & INTERSECTING LINES</u> (1-2 lessons) Naming the opposite, corresponding and alternate angles, supplementary angles.</p>	
<p>Week 6</p>	<p><u>ANGLE SYMMETRY IN POLYGONS</u> (2 lessons) Finding the interior angle of various polygons Sum of interior angles of a polygon. The symmetries – line and rotational for polygons</p>	
<p>Week 6</p>	<p><u>SYMMETRY PROPERTIES OF 3-D SHAPES</u> (1 lesson)</p>	
<p>Week 6</p>	<p><u>COMPASS BEARINGS</u> (1-2 lessons) Compass points and the use of bearings. Drawing and measuring bearings.</p>	

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<p>Week 7</p>	<p><u>ANGLES & CIRCLES 1</u> (1- 2 lesson) Proof of the angle in a ‘semicircle is 90° Special vocabulary of tangent, chord, and perpendicular bisector.</p>	<p>40 mins- 1 hour per week</p>
<p>Week 7</p>	<p><u>ANGLES & CIRCLES 2</u> (2 lessons) The angle subtended by an arc at the centre is twice the angle subtended on the circumference. Angle subtended at the circumference by a chord, on the same side of the chord, are equal Opposite angles of a cyclic quadrilateral sum to 180°</p>	
<p>Week 8</p>	<p><u>CIRCLES & TANGENTS</u> (2 lessons) The alternate segment theorem For two intersecting chords the similar triangles give the ratio/ or multiplication of the lengths.</p>	
<p>Week 8</p>	<p><u>SQUARES & TRIANGLES</u> <u>PYTHAGORAS’ THEOREM</u> (2 lessons) Squares and roots Naming triangles Finding the side of a right angled triangle given two sides.</p> <p><u>ASSESSMENT 1</u></p>	
<p>Week 9</p>	<p><u>FURTHER WORK WITH PYTHAGORAS’ THEOREM</u> (1 lesson) Problems involving algebra Pythagoras in 3-D problems</p>	
<p>Week 9</p>	<p><u>SINE, COSINE & TANGENT</u> <u>FINDING LENGTHS IN RIGHT ANGLED TRIANGLES</u> <u>FINDING ANGLES IN RIGHT ANGLED TRIANGLES</u> <u>MIXED PROBLEMS WITH TRIGONOMETRY</u> (2-3 lessons) Finding the length Finding the angle Angle of elevation/depression</p>	
<p>Week 10</p>	<p><u>SINE & COSINE RULES</u> (2 lessons)</p>	
<p>Week 10</p>	<p><u>ANGLES LARGER THAN 90°</u> (2 lessons) Four quadrants for angles Exact surd values</p>	

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<p>Week 11</p>	<p><u>PROBABILITIES</u> <u>SIMPLE PROBABILITY</u> (1 lesson) Certain, very likely, likely, unlikely, very unlikely and impossible. Probability will total 1</p>	<p>40 mins- 1 hour per week</p>
<p>Week 11</p>	<p><u>OUTCOME OF TWO EVENTS</u> <u>FINDING PROBABILITIES USING RELATIVE FREQUENCIES</u> <u>DETERMINING PROBABILITIES</u> (3 lessons) Listings outcomes 2-way tables Sample space Using relative frequencies from data Equally likely happenings Understand $>$ or \geq</p>	
<p>Week 12</p>	<p><u>PROBABILTY OF TWO EVENTS</u> <u>USE OF TREE DIAGRAMS</u> (2 lessons) The use of sample space for the two events and answering from this Revise the method of tree diagram</p>	
<p>Week 12</p>	<p><u>MULTIPLICATION FOR INDEPENDENT EVENTS</u> (1 lesson) Independent events</p>	
<p>Week 12</p>	<p><u>MUTUALLY EXCLUSIVE EVENTS</u> (1 lesson) Two events cannot happen at the same time</p>	
<p>Week 13</p>	<p><u>TREE DIAGRAMS AND CONDITIONAL PROBABILITY</u> <u>USING VENN DIAGRAMS TO FIND PROBABILITIES</u> (1 lesson)</p>	
<p>Week 13</p>	<p><u>DECIMALS</u> <u>MULTIPLYING & DIVIDING WITH DECIMALS</u> (1 lessons) Revise significant figures + And – of decimals. Money problems. Metric system – understand m into cm. Be able to X by 10, 100, etc Likewise divide by 10,100, etc</p>	
<p>Week 13</p>	<p><u>FRACTIONS & DECIMALS</u> <u>LONG MULTIPLICATION AND DIVISION</u> (0-1 lessons) To be able to do 1 or 2 decimal places, understand 1 or 2 significant figures Converting a fraction into decimals – without a calculator</p>	

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<p>Spring Term (Year 10)</p>		<p>40 mins- 1 hour per week</p>
<p>Week 1</p>	<p><u>ESTIMATING ANSWERS</u> (1 lesson) To estimate each number to 1 significant figures to estimate answers</p>	
<p>Week 1</p>	<p><u>USING BRACKETS & MEMORY ON A CALCUALTOR</u> (1 lesson)</p>	
<p>Week 1</p>	<p><u>UPPER & LOWER BOUNDS</u> (2 lessons) Tolerance in Engineering</p>	
<p>Week 2</p>	<p><u>NUMBER SYSTEM</u> (2 lessons) Integers, rational numbers, irrational numbers, terminating decimals, recurring decimals Real numbers-includes all possible rational and irrational numbers. Method of finding the fraction from the recurring decimal</p>	
<p>Week 2</p>	<p><u>SURDS</u> (1-2 lessons) Idea of a surd Multiply out</p>	
<p>Week 2</p>	<p><u>MAKING SOLIDS USING NETS & CONSTRUCTING NETS</u> (1 lesson) Difference between prism and pyramid Cube, triangular prism Draw the more complex nets</p>	
<p>Week 3</p>	<p><u>CONVERSION OF UNITS (1 lesson)</u> The use of imperial and metric units and their equivalents/ approximations.</p>	
<p>Week 3</p>	<p><u>SQUARES,RECTANGLES & TRIANGLES</u> (2 lesson) Compound shapes using the basic facts Area under a speed time graph</p>	
<p>Week 3</p>	<p><u>AREA & CIRCUMFERENCE OF CIRCLES</u> (1 lesson) Use the standard formulas</p>	
<p>Week 4</p>	<p><u>VOLUMES OF CUBES,CUBOIDS, CYLINDERS & PRISMS</u></p>	

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Week 4	<p>(2 lessons) Cube, cuboid and prisms Volumes of pyramids + frustums of cones</p> <p><u>PLANS & ELEVATIONS + ISOMETRIC PAPER</u> (1 lesson) Isometric paper Front, side and plan</p>	
Week 4	<p><u>DISCRETE & CONTINUOUS MEASURES</u> (0-1 lessons)</p>	
Week 5	<p><u>AREAS OF PARALLELOGRAMS, TRAPEZIUMS, KITES & RHOMBUSES</u> (1 lesson) Formula for parallelogram & trapezium</p>	
Week 5	<p><u>SURFACE AREA</u> (2 lessons) Surface area of cube ,cuboid and triangular prism Surface area of the cylinder</p>	
Week 5	<p><u>MASS, VOLUME & DENSITY</u> (1 lesson)</p>	
Week 6	<p><u>VOLUMES, AREAS & LENGTHS</u> (2 lessons) The area of a triangle using sine rule The area of a sector Formulas for – pyramid, cone sphere</p>	
Week 6	<p><u>DIMENSIONS</u> (1 lessons) 1 –D measures, 2-D area formulas, 3 –D volume and the impossible Identify the dimension</p>	
Week 6	<p><u>AREAS OF TRIANGLES</u> (1 lessons)</p>	
	<p><u>ASSESSMENT 2</u></p>	
Week 7	<p><u>TABLES & TIMETABLES(1 lessons)</u> Reading timetables and general tables. Two-way tables Complete and then calculate % problems from the same</p>	
Week 7	<p><u>PICTOGRAMS & BAR CHARTS</u> (0-1 lesson)</p>	

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Week 7	<u>PIE CHARTS</u> (1-2 lesson) Answer questions from pie charts Calculate % from the quantities Read from pie chart
Week 8	<u>STEM AND LEAF + QUARTILES & BOX PLOTS & MOVING AVERAGES</u> (2 lessons)
Week 8	<u>QUESTIONNAIRES & SURVEYS</u> (1 lesson)
Week 9	<u>FREQUENCY GRAPHS</u> (2 lessons) Simple frequency graph Frequency polygon Understanding of the inequality Histogram
Week 9	<u>HISTOGRAMS WITH UNEQUAL CLASS INTERVALS</u> (2 lessons) Frequency density Completion of a frequency table
Week 10	<u>SAMPLING</u> (0-1 lessons) Random, systematic, stratified Random numbers
Week 10	<u>MEAN , MEDIAN, MODE & RANGE</u> (2 lessons)
Week 10	<u>FINDING THE MEAN FROM TABLES & TALLY CHARTS</u> (1 lesson)
Week 11	<u>CALCULATION WITH THE MEAN</u> (1 lesson) Including algebraic
Week 11	<u>MEAN, MEDIAN & MODE FOR GROUPED DATA</u> (2 lesson) Finding the mid-point for the interval and then estimating the mean from the grouped data Modal class identified
Week 12	<u>CUMULATIVE FREQUENCY</u> (2 lessons) Idea of median & interquartile. Finding the \geq values from graph.

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<p>Summer Term (Year 10)</p>		
<p>Week 1</p>	<p><u>NEGATIVE NUMBERS, ARITHMETIC WITH NEGATIVE NUMBERS</u> (½ lesson)</p>	
<p>Week 1</p>	<p><u>SIMPLIFYING EXPRESSIONS</u> (½ lesson) Simple collection of terms, including the expansion of brackets and then simplification</p>	
<p>Week 1</p>	<p><u>SIMPLE EQUATIONS</u> (½ lesson)</p>	
<p>Week 1</p>	<p><u>SIMPLE EQUATIONS 2</u> (1 lesson) Unknown letter on both sides, brackets, simple fraction, written problems</p>	
<p>Week 2</p>	<p><u>TRIAL & IMPROVEMENT</u> (1-2 lessons)</p>	
<p>Week 2</p>	<p><u>EXPANDING BRACKETS</u> (1 lesson) Expansion of two brackets</p>	
<p>Week 3</p>	<p><u>SIMULTANEOUS EQUATIONS</u> (2 lessons) 'Changing ' the coefficient</p>	
<p>Week 3</p>	<p><u>FACTORISATION 1</u> <u>FACTORISATION 2</u> (2 lessons) The 'removing' of common factors Quadratic</p>	
<p>Week 4</p>	<p><u>SOLVING QUADRATIC EQUATIONS BY FACTORISATION</u> (2 lessons) Factorise and then solve quadratics The types of solutions available for the quadratic</p>	
<p>Week 4</p>	<p><u>SOLVING QUADRATIC EQUATIONS BY FORMULA</u> (1-2 lessons) The discriminant</p>	
<p>Week 5</p>	<p><u>ALGEBRAIC SOLUTION OF LINEAR/ QUADRATIC SIMULTANEOUS EQUATIONS</u> (1 lesson)</p>	

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Week 5	<u>FINDING THE INTERSECTION OF A CIRCLE AND STRAIGHT LINE ALGEBRAICALLY</u> (1 lesson)
Week 5	<u>ALGEBRAIC EQUATIONS</u> (1-2 lesson) Use the factorizing The + and – of two different algebraic fractional denominators
Week 6	<u>COMPLETING THE SQUARE</u> (1 lesson)
Week 6	<u>ALGEBRAIC FRACTIONS & QUADACTIC EQUATIONS</u> (1 lesson)
Week 6	<u>FRACTION, DECIMALS & PERCENTAGES</u> (0-1 lessons) Writing % as fraction, then simplify the fraction. % written as a decimal. Fraction changed to a %
Week 6	<u>QUANTITIES AS PERCENTAGES</u> (1 lesson) Changing any mark to a %
	<u>ASSESSMENT 3</u>
Week 7	<u>MORE COMPLEX PERCENTAGES</u> (2 lessons) The multiplier idea
Week 7	<u>PERCENTAGE INCREASE & DECREASE</u> (1 lesson) 'Initial/original' value is always on the denominator
Week 7	<u>ADDITION & SUBTRACTION OF FRACTIONS</u> (1 lessons)
Week 8	<u>MULTIPLICATION & DIVISION OF FRACTIONS</u> (1 lesson)
Week 8	<u>COMPOUND INTEREST & DEPRECIATION</u> (2 lessons)
Week 8	<u>REVERSE PERCENTAGE PROBLEMS</u>

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	<p>(1-2 lessons) VAT, profit questions</p>	
Week 9	<p><u>SIMPLE NUMBER PATTERNS</u> (½ lesson) Finding differences</p>	
Week 9	<p><u>RECOGNISING NUMBER PATTERNS</u> (½ lesson) Including triangular numbers</p>	
Week 9	<p><u>EXTENDING NUMBER PATTERNS</u> (1 lesson) Write down the first 5 or 6 calculations so that a general pattern can be predicted</p>	
Week 9	<p><u>FORMULAE AND NUMBER PATTERNS</u> (1 lesson) Generate the next 5/6 values Finding the formula</p>	
	<p><u>END OF YEAR EXAM</u></p>	
Week 10	<p><u>GENERAL LAWS</u> (1 lesson) Iterative ideas</p>	
Week 10	<p><u>POSITIVE CO-ORDINATES</u> <u>COORDINATES</u> (0-1 lessons) Plot points and revise shapes</p>	
Week 10	<p><u>THREE DIMENSIONAL COORDINATES</u> (1 lesson)</p>	
Week 11	<p><u>MID-POINT OF A LINE</u> (1 lesson)</p>	
Week 11	<p><u>LENGTHS OF LINE SEGMENTS</u> (1 lesson)</p>	
Week 11	<p><u>PLOTTING STRAIGHT LINES</u> (0-1 lesson) completing tables for the line $y = mx + c$ Parallel lines $1/m$ for perpendicular</p>	
	<p>WORK EXPERIENCE</p>	

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Autumn Term (Year 11)		
Week 1	<u>PLOTTING CURVES</u> (1-2 lessons) Also cubic curves To recognise 'shape' Coverage of the 'reciprocal type'	
Week 1	<u>GRADIENT</u> (1 lesson) Define the gradient	
Week 1	<u>GRADIENTS OF PARALLEL LINE SEGMENTS</u> (1 lesson)	
Week 2	<u>GRADIENTS OF PERPENDICULAR LINES</u> (1 lesson)	
Week 2	<u>APPLICATION OF GRAPHS</u> (2 lessons) Conversion and travel types Simple readings from conversions Travel-with time and distance Time & speed	
Week 2	<u>SCATTER PLOTS & LINES OF BEST FIT</u> (1-2 lessons) All the correlations	
Week 3	<u>THE EQUATION OF A STRAIGHT LINE</u> (2 lessons) The algebraic type and written practical problems Re-scaling a set of experimental data to fit to a linear rule	
Week 3	<u>EQUATIONS OF PARALLEL LINES</u> (1 lesson)	
Week 4	<u>EQUATIONS OF PERPENDICULAR LINES</u> (1 lesson)	
Week 4	<u>HORIZONTAL & VERTICAL LINES</u> (1 lesson) Lines that intersect $x = a$ and $y = b$, find the area enclosed	
Week 4	<u>SOLUTIONS OF SIMULTANEOUS EQUATIONS BY GRAPHS</u>	

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	<p>(1-2 lessons) Algebra and the practical ones</p>	
Week 5	<p><u>GRAPHS OF COMMON FUNCTIONS</u> (1 lesson) Linear, quadratic, cubic and reciprocal</p>	
Week 5	<p><u>GRAPHICAL SOLUTIONS OF LINEAR/QUADRATIC SIMULTANEOUS EQUATIONS</u> (1 lesson)</p>	
Week 5	<p><u>CIRCLES AND THEIR EQUATIONS</u> (1 lesson) Construct the graphs of simple loci, including the circle Find graphically the intersection points of a given straight line with the circle</p>	
Week 5	<p><u>FINDING THE INTERSECTION OF CIRCLE AND STRAIGHT LINE GRAPHICALLY</u> (1 lesson)</p>	
Week 6	<p><u>GRAPHICAL SOLUTIONS OF EQUATIONS</u> (2 lessons) Intersecting graphs Rearrangements</p>	
Week 6	<p><u>SCALE DRAWINGS</u> (1 lesson) 1 : n Map ratio</p>	
	<p><u>ASSESSMENT 1</u></p>	
Week 7	<p><u>CONSTRUCTING TRIANGLES & OTHER SHAPES</u> (1 lesson) Two types Special shape names</p>	
Week 7	<p><u>ENLARGEMENTS</u> (1 lesson) Enlargement from the given origin</p>	
Week 7	<p><u>REFLECTIONS</u> (1 lesson)</p>	
Week 7	<p><u>STRAIGHT EDGE AND COMPASS CONSTRUCTIONS</u> (1 lesson)</p>	

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Week 8	<u>CONSTRUCTION OF LOCI</u> (1-2 lessons)
Week 8	<u>ENLARGEMENTS THAT REDUCE</u> (1-2 lessons) Coordinates to enlargements Reductions including from different 'centres'
Week 9	<u>FURTHER REFLECTIONS</u> (1-2 lessons) 'Slant' line reflection $y = x$ or $y = -x$ line Also the use of reflection in $x = a$ or $y = b$ lines
Week 9	<u>ROTATIONS</u> (1-2 lessons) Simple 'flat' type Rotation from the given origin
Week 10	<u>TRANSLATIONS</u> (1 lesson) Vector notation
Week 10	<u>COMBINED TRANSFORMATIONS</u> (2 lessons)
Week 10	<u>CONGRUENCE</u> (1 lesson)
	MOCK EXAMINATION
Week 11	<u>SIMILARITY</u> (2 lessons) scale factor on – area, volume
Week 11	<u>ENLARGEMENTS WITH NEGATIVE SCALE FACTORS</u> (1 lesson)
Week 12	<u>SIMPLE RATIOS</u> (0-1 lessons) Simplify ratios Sharing in a given ratio
Week 12	<u>PROPORTION AND RATIO</u> (0-1 lessons)
Week 12	<u>MAP SCALES & RATIOS</u> (1-2 lessons) PROPORTIONAL DIVISION (0-1 lesson)

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Spring Term (Yr11)		
Week 1	<u>DIRECT PROPORTION</u> (1 lesson) Constant of proportionality	
Week 1	<u>INVERSE PROPORTION</u> (2 lessons)	
Week 2	<u>FUNCTIONAL & GRAPHICAL REPRESENTATIONS</u> (1 lesson) Proportionality with higher powers and the graphical representation of the same Calculating a value k from a given graph	
Week 2	<u>FURTHER FUNCTIONAL REPRESENTATIONS</u> (1 lesson) Inverse and roots in proportionality	
Week 2	<u>INEQUALITIES ON A NUMBER LINE</u> (1 lesson) Solid • circle for inclusion and the open o for non-inclusive	
Week 3	<u>SOLUTION OF LINEAR INEQUALITIES</u> (1-2 lessons) Effect \times or \div by a negative number	
Week 3	<u>INEQUALITIES INVOLVING QUADRATIC TERMS</u> (1 lesson)	
Week 4	<u>GRAPHICAL APPROACH TO INEQUALITIES</u> (2 lessons) Simple linear programming ideas	
Week 4	<u>DEALING WITH MORE THAN ONE INEQUALITY</u> (2 lessons) More linear programming ideas	
	<u>ASSESSMENT 2</u>	
Week 5	<u>TRANSFORMATIONS OF GRAPHS</u> (1 lesson) The four basic transformations	

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Week 5	<u>FINDING COEFFICIENTS</u> (2 lessons) Reduces data to linear relationships	
Week 6	<u>USING PYTHAGORAS' THEOREM & TRIGONOMETRY IN THREE DIMENSIONS</u> (2-3 lessons) Pythagoras and trigonometry to 3 – D Angle between a line and a plane	
Week 7	<u>ANGLES & PLANES</u> (1-2 lessons) Finding the 'smallest' angle between the line and the plane Use of the cosine rule	
Week 7	<u>VECTORS & SCALARS</u> (1 lesson) Simple calculations of vectors Vector column and notation	
Week 8	<u>APPLICATION OF VECTORS</u> (2 lessons) Forces and resultant velocity	
Week 8	<u>VECTORS & GEOMETRY</u> (2 lessons)	
Week 9	<u>MATHEMATICAL PROOF</u> (1 lesson)	
	<u>REVISION</u> <u>ASSESSMENT 3</u>	

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