

Week	<p align="center">CONTENT and MAIN TEACHING OBJECTIVES HANDLING DATA (L 5-7)</p>	<p align="center">Homework/ Assessment</p>
<p>TERM 1</p>	<p>Students follow the Edexcel modular syllabus covering the four attainment targets of Number & Algebra, Shape & Space, Data Handling and Applications of Mathematics. The Foundation tier course covers grades C to G and is assessed in three stages with Stage 1 Data handling exam in term 2 of Year 10 and Stage 2 non-Calculator and calculator exam in term 2 of Year 11 and a terminal non-Calculator and calculator exam at the end of Year 11. Pupils have the opportunity to resit modules at times during the year. (This is a guideline only and teaching times and topics are altered when and if necessary to meets the needs of pupils)</p> <hr/>	<p>Set once a week to last between 40 mins and 1 hour.</p>
<p>Week 1</p>	<p>Reading timetables and general tables (2 lessons) The difference between primary and secondary Two-way tables</p> <hr/>	
<p>Week 1</p>	<p><u>PICTOGRAMS & BAR CHARTS (2 lessons)</u> Revises bar charts, tally marks and pictograms</p> <hr/>	
<p>Week 2</p>	<p><u>PIE CHARTS (2 lessons)</u> Calculate the angles and draw</p> <hr/>	
<p>Week 2</p>	<p><u>LINE GRAPHS (1 lesson)</u> Line graphs from time series</p> <hr/>	
<p>Week 2/3</p>	<p><u>SCATTER PLOTS & LINES OF BEST FIT (2 lessons)</u> <u>QUESTIONNAIRES & SURVEYS (1lesson)</u> <u>FREQUENCY GRAPHS (2 lessons)</u> Frequency polygons – draw a bar chart for grouped data (equal intervals) Show how a frequency polygon is constructed from this by joining the centres of the top of each bar.</p> <hr/>	
<p>Week 4</p>	<p><u>MEAN, MEDIAN , MODE & RANGE (3 lessons)</u> Mean, range and median from a small set of data.</p> <hr/>	

<p>Week 5</p>	<p><u>FINDING THE MEAN FROM TABLES & TALLY CHARTS (2 lessons)</u> Mean of grouped data, then continuous.</p> <hr/>	<p>40 mins-1 hour per week</p>
<p>Week 5/6</p>	<p><u>CALCULATION WITH THE MEAN (1 lesson)</u> <u>MEAN, MEDIAN & MODE FOR GROUPEd DATA (2 lessons)</u> Finding the mid-value of some given intervals.</p> <hr/>	
<p>Week 7</p>	<p><u>PROBABILITIES</u> <u>SIMPLE PROBABILITY (2 lessons)</u> Use of description – certain, very likely, likely, unlikely, very unlikely and impossible, the ‘ruler’ from 0 to 1.</p> <hr/>	
<p>Week 7</p>	<p>ASSESSMENT</p> <hr/>	
<p>Week 8</p>	<p><u>OUTCOME OF TWO EVENTS</u> <u>FINDING PROBABILITIES USING RELATIVE FREQUENCIES (3 lessons)</u> Method of listings, outcomes and also the 2-way tables.</p> <hr/>	
<p>Week 9</p>	<p><u>PROBABILITY OF TWO EVENTS (2 lessons)</u> The use of sample space for the two events</p> <hr/>	
<p>Week 10/11/12</p>	<p>REVISION Handling Data/Past papers</p> <hr/>	
<p>Week 13</p>	<p><u>MULTIPLICATION & DIVISION</u> <u>SQUARES, CUBES, SQUARE ROOTS AND CUBE ROOTS (2 lessons)</u> Revision of tables and using +, -, X, ÷ whole numbers. Understand concept of inverse.</p> <hr/>	
<p>Week 13/14</p>	<p><u>INDEX NOTATION FACTORS</u> <u>PRIME FACTORS (3 lessons)</u> Use of the index notation, simple integer powers. Finding if a given prime number is a factor of x. Cover concept of multiple, HCF, LCM, prime factors.</p>	

TERM 2	<p><u>ASSESSMENT</u></p> <p>There may be some delay to the dule due to pupils completing examination papers in lessons for the GCSE module.</p>	40 mins-1 hour per week
Week 1	<p><u>STANDARD FORM</u> <u>CALCULATIONS WITH STANDARD FORM (2 lessons)</u> Introduce standard form. Writing in S.F. and vice-versa – normal decimal format. Concept of negative index. Interpret the calculator notation.</p>	
Week 2	<p><u>DECIMALS</u> <u>MULTIPLYING & DIVIDING WITH DECIMALS (3 lessons)</u> Reading from a scale. + And - of decimals. Money problems. Metric system – understand m into cm. Be able to X by 10, 100, etc. Then to use the idea to X or divide by</p>	
Week 3	<p><u>FRACTIONS & DECIMALS (2 lessons)</u> Rounding to 10, or 100. Go onto rounding to nearest integer. 1d.p. and 2d.p. Understand 1 significant figure. Converting a fraction into decimals – without a calculator. Learn the familiar decimal to fractions. Recurring decimals verses the termination decimal. Simple fraction or decimal of time.</p>	
Week 4	<p><u>LONG MULTIPLICATION AND DIVISION (2 lessons)</u></p>	
Week 4	<p><u>ESTIMATING ANSWERS (1 lesson)</u> To estimate each number to 1 significant figures to estimate answers.</p>	
Week 5	<p><u>REVISION OF NEGATIVE NUMBERS (1 lesson)</u> <u>NEGATIVE NUMBERS</u></p>	

<p>Week 5</p>	<p><u>ARITHMETIC WITH NEGATIVE NUMBERS (2 lessons)</u> Ensure they can draw a number line and use the same to help calculate. Use the idea of ‘debt’</p> <hr/>	<p>40 mins-1 hour per week</p>
<p>Week 6</p>	<p><u>SIMPLE EQUATIONS (4 lessons)</u> <u>SOLVING EQUATIONS</u> Expect also negative answers. Unknowns both sides, use of brackets on both sides, simple fractional type, written problems.</p> <hr/>	
<p>Week 7</p>	<p><u>FRACTION, DECIMALS & PERCENTAGES (2 lessons)</u> Teach writing % as fraction, then simplify the fraction. Teach % written as a decimal. Teach fraction changed to a %. <u>FRACTIONS & PERCENTAGES OF QUANTITIES (2 lessons)</u></p> <hr/>	
<p>Week 8/9</p>	<p><u>REVISION FOR DATA HANDLING MODULE</u> <u>PUPILS SIT DATA HANDLING MODULE</u></p> <p><u>ASSESSMENT- GCSE MODULE</u></p> <hr/>	
<p>Week 10</p>	<p><u>CHANGE BOOK</u> <u>GCSE YR 10 – MODULAR – FOUNDATION – TEXT (1 -6)</u> <u>USING FORMULAE</u> <u>CONSTRUCT & USE SIMPLE FORMULAE (2 lessons)</u> Simple substitution into formulae. The understanding of ‘shorthand’</p> <hr/>	
<p>Week 11</p>	<p><u>EXPANSION OF BRACKETS</u> <u>FACTORISATION (3 lessons)</u> Multiply out a simple linear bracket by simple number/letter. Collection where necessary. Also needs to multiply out bracket by bracket.</p> <hr/>	

<p>Week 12</p>	<p><u>FACTORISATION (2 lessons)</u> <u>ALGEBRAIC MANIPULATION</u> <u>ALGEBRAIC FRACTIONS</u> <u>CONTENT and MAIN TEACHING OBJECTIVES ALGEBRA (L 4 – 6)</u> Factorise – ‘Find Friendly letters or numbers’ ‘Take out’ the single number / single letter and then both. E.g. $10x + 15$ or $x^2 - 3x$</p>	<p>40 mins-1 hour per week</p>
<p>TERM 3</p>	<p><u>ASSESSMENT</u></p>	
<p>Week 1</p>	<p><u>SIMPLE NUMBER PATTERNS (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>NUMBER & ALGEBRA (L 5-6)</u> Use the idea of finding differences. Can use it to practice + and –</p>	
<p>Week 1</p>	<p><u>RECOGNISING NUMBER PATTERNS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>NUMBER & ALGEBRA (L 5-7)</u> Idea of differences – used with ‘counting’ – shapes & points / etc.</p>	
<p>Week 2</p>	<p><u>POSITIVE CO-ORDINATES</u> <u>COORDINATES (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4-7)</u> Cover all four quadrants.</p>	
<p>Week 3</p>	<p><u>HORIZONTAL & VERTICAL LINES (3 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-6/7)</u></p>	
<p>Week 4</p>	<p><u>PLOTTING STRAIGHT LINES (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>ALGEBRA & SHAPE & SPACE (L 5-7)</u> Completing tables for the line $y = mx + c$ Plotting a straight line.</p>	

<p>Week 5</p>	<p><u>MEASURING ANGLES (2 Lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4 - 6)</u> Distinguish between acute, obtuse, reflex and right angles.</p> <hr/>	
<p>Week 5</p>	<p><u>ANGLE GEOMETRY (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7)</u> Angles at a point, angles on a straight line, angles of an equilateral triangle, isosceles triangle and angles of a quadrilateral. Finding the missing angle – including simple algebraic problems.</p> <hr/>	
<p>Week 6</p>	<p>ASSESSMENT</p> <hr/>	
<p>Week 6</p>	<p><u>ANGLES WITH PARALLEL & INTERSECTING LINES (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4-7)</u> Naming the opposite, corresponding and alternate angles, supplementary angles</p> <hr/>	
<p>Week 7</p>	<p><u>PROPERTIES OF CIRCLES (1 lesson)</u></p> <hr/>	
<p>Week 8</p>	<p><u>SYMMETRY PROPERTIES OF 3-D SHAPES (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-8)</u></p> <hr/>	
<p>Week 8</p>	<p><u>COMPASS BEARINGS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4-7)</u> Compass points. The use of bearings. Drawing and measuring bearings.</p> <hr/>	
<p>Week 9</p>	<p><u>DISTANCE / SPEED / TIME (1 lesson)</u></p> <hr/>	

<p>Week 9</p>	<p><u>UNITS & MEASURING, ESTIMATION OF AREAS (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4-6)</u> Conversion between metric units, reading scales. Areas by estimation and ‘counting’</p> <hr/>	
<p>Week 9</p>	<p><u>MAKING SOLIDS USING NETS & CONSTRUCTING NETS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 6-7)</u> Understand the concept of surface area. The difference between prisms and e.g. pyramid.</p> <hr/>	
<p>Week 10</p>	<p><u>CONVERSION OF UNITS (1 lesson)</u> <u>CONVERSION OF UNITS (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>ALGEBRA (L 6-8)</u> The use of imperial and metric units and their equivalents / approximations. Know the rough metric equivalents of pounds, feet, miles, pints and gallons.</p> <p><u>END OF YEAR ASSESSMENT</u></p> <hr/> <p>WORK EXPERIENCE (2 WEEKS)</p>	

<p>YEAR 11</p> <p>TERM 1</p>	<hr/>	
<p>Week 1</p>	<p><u>SQUARES, RECTANGLES & TRIANGLES (3 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7)</u> The area of square, rectangle and triangle. Also the perimeter of shapes. Area of parallelograms. Compound shapes using these ideas.</p> <hr/>	
<p>Week 2</p>	<p><u>AREA AND CIRCUMFERENCE OF CIRCLES (3 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7)</u> Use the standard formulas to be memorise. Problems in all aspects, including the semicircle, and quarter circle.</p> <hr/>	
<p>Week 2</p>	<p><u>VOLUMES OF CUBES, CUBOIDS, CYLINDERS & PRISMS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7/8)</u></p> <hr/>	
<p>Week 3</p>	<p><u>QUANTITIES AS PERCENTAGES (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES NUMBER (L 5-7)</u> Increase and decrease by % Simple idea of changing any mark to a %</p> <hr/>	
<p>Week 4</p>	<p><u>ADDITION & SUBTRACTION OF FRACTIONS (2 lessons)</u></p> <hr/>	
<p>Week 4</p>	<p><u>MULTIPLICATION AND DIVISION OF FRACTIONS (2 lessons)</u></p> <hr/>	
<p>Week 5</p>	<p><u>SIMPLE RATIOS (3 lessons)</u> <u>PROPORTION AND RATIO</u> <u>CONTENT and MAIN TEACHING OBJECTIVES ALGEBRA (L 5-8)</u> Simplify ratios. Sharing in a given ratio.</p>	

<p>Week 5</p>	<p><u>INDEX NOTATION (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>ALGEBRA & NUMBER (L 6-7)</u> Use of the index notation.</p> <hr/>	
<p>Week 6</p>	<p><u>SUBSTITUTION INTO FORMULAE</u> <u>MORE COMPLEX FORMULAE (3 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES NUMBER (L 5-7)</u></p> <hr/>	
<p>Week 7</p>	<p><u>MOCK EXAMINATION</u></p> <hr/>	
<p>Week 8</p>	<p><u>SIMPLIFYING EXPRESSIONS (3 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES ALGEBRA (L5-7)</u> Collection of terms, including the expansion of brackets and then simplification</p> <hr/>	
<p>Week 9</p>	<p><u>SIMPLE EQUATIONS (4 lessons)</u> <u>SOLVING EQUATIONS</u> <u>CONTENT and MAIN TEACHING OBJECTIVES ALGEBRA (L 5-7)</u></p> <hr/>	
<p>Week 10</p>	<p><u>TRIAL & IMPROVEMENT (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES ALGEBRA (L 5-7)</u></p> <hr/>	
<p>Week 10</p>	<p><u>INEQUALITIES ON A NUMBER LINE (1 lesson)</u></p> <hr/>	
<p>Week 10</p>	<p><u>SOLUTION OF LINEAR INEQUALITIES (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES ALGEBRA (L 5/6-8)</u></p> <hr/>	
<p>Week 11/12</p>	<p><u>REVISION FOR STAGE 2 EXAM.</u> <u>PUPILS SIT STAGE 2 EXAM</u> ASSESSMENT – GCSE ASSESSMENT</p>	

Week 13	<p><u>SOLUTIONS OF SIMULTANEOUS EQUATIONS BY GRAPHS (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7/8)</u></p> <hr/>
Week 13	<p><u>PLOTTING CURVES (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>ALGEBRA & SPACE & SHAPE (L 5-7)</u> The completion of tables</p> <hr/>
Week 14	<p><u>GRADIENT (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7)</u></p> <hr/>
Week 14	<p><u>LINE & ROTATIONAL SYMMETRY (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 3-6)</u></p> <hr/>
TERM 2	<hr/>
Week 1	<p><u>ANGLE SYMMETRY IN POLYGONS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4-6)</u> Find the interior angle of various polygons Sum of interior angles of a polygon The symmetries – line and rotational for polygons</p> <hr/>
Week 1	<p><u>PLANS & ELEVATIONS + ISOMETRIC PAPER (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7)</u></p> <hr/>
Week 2	<p><u>PYTHAGORAS' THEOREM</u> <u>FURTHER WORK WITH PYTHAGORAS' THEOREM (4 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE & ALGEBRA (L 6-7)</u> Naming triangles – isosceles, equilateral and scalene. Emphasise the need for the right-angled triangle. Finding the side of a right angled triangle given two sides.</p> <hr/>

<p>Week 3</p>	<p><u>SCALE DRAWINGS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7)</u></p> <hr/>	
<p>Week 3</p>	<p><u>CONSTRUCTING TRIANGLES & OTHER SHAPES (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 5-7)</u></p> <hr/>	
<p>Week 4</p>	<p><u>ENLARGEMENTS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4-7)</u></p> <hr/>	
<p>Week 4</p>	<p><u>REFLECTIONS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4-6/7)</u></p> <hr/>	
<p>Week 5</p>	<p><u>CONSTRUCTION OF LOCI (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L7)</u></p> <hr/>	
<p>Week 5</p>	<p><u>FURTHER REFLECTIONS (L 7)</u> <u>TRANSLATIONS (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 4 - 6)</u></p> <hr/>	
<p>Week 6</p>	<p><u>COMBINED TRANSFORMATIONS (2 lessons)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 6 – 7)</u></p> <hr/>	
<p>Week 6</p>	<p><u>ASSESSMENT</u></p> <hr/>	
<p>Week 7</p>	<p><u>CONGRUENCE (1 lesson)</u> <u>CONTENT and MAIN TEACHING OBJECTIVES</u> <u>SHAPE & SPACE (L 6-7)</u></p>	

Week 7

SIMILARITY (1 lesson)
CONTENT and MAIN TEACHING OBJECTIVES
SHAPE, SPACE & ALGEBRA (L 7)

**Week
8/9/10**

PROOF (L 7)
DIMENSION (L 7)

REVISION FOR TERMINAL EXAM AND RESITS

ASSESSMENTS

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