| HIGHER SCHEME - A \& S GROUPS FOUNDATION - P/I/R/E GROUPS |  |  |  |  |
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| IN YEAR 9, STUDENT AT THE TOP END OF THE BAND COVER GREEN AND SOME YELLOW CONTENT. AT THE LOWER END OF THE BAND STUDENTS MAY ONLY COVER SOME OF the green content. | $\begin{aligned} & \text { 믄 } \\ & \frac{\pi}{0} \\ & \text { 믕 } \end{aligned}$ |  |  | $\xrightarrow{\text { a }}$ |
| Section 1: Shape |  |  |  |  |
| Properties of Triangles | G | 1 | G4 | $$ |
| Properties of Quadrilaterals | F | 2 |  |  |
| Identifying Congruent and Similar Shapes | E | 3 | G5 (part) |  |
| Properties of Circles | G | 1 | G9 |  |
| Drawing circles | G | 1 |  |  |
| Line Symmetry | F | 2 | G1 (part of) |  |
| Rotational Symmetry | F | 2 | G1 (part of) |  |
| Recognising 3D Shapes | F | 2 | G12 |  |
| Isometric Drawing | E | 3 | $\underline{\text { G13 (part of) }}$ |  |
| Loci and Construction | C | 5 | $\underline{\mathrm{G} 2}$ | $n$ <br> $\stackrel{n}{\#}$ <br>  <br> $n$ |
| Bearings, Scale Drawing and Maps | D | 4 | $\underline{\text { G15 }}$ |  |
|  | D | 4 | R2 |  |
| Nets, Plans and Elevations | C | 5 | G13 (part of) |  |
| Congruence and finding corresponding lengths in similar shapes |  | 5 | G19 |  |
| Identify congruent triangles |  | 5 | $\underline{\text { G5 }}$ |  |
| Section 2: Number |  |  |  |  |
| Place value and writing numbers | G | 1 | N2 (part) |  |
| Addition, Subtraction, Multiplication and Division with integers | F | 2 | N2 (part) |  |
| Apply Systematic Listing Strategies |  | 4 | N5 |  |
| Rounding | E | 3 | N15 (part) |  |
| Negative Numbers | E | 3 | N2 (part) |  |
| Ordering decimals | E | 3 | N1 (part) |  |
| Add, Subtract, Multiply \& Divide Decimals | E | 3 | N2 (part) |  |
| BIDMAS |  | 4 | N3 |  |
| Factors, multiples and primes, LCM and HCF | D | 4 | N4 |  |
| Squares and Cubes, calculate with roots and integer indices | D | 4 | N2 (part), N7 |  |
| Rounding and Estimation (to any number of significant figures) | C | 5 | N14, N15 (part) |  |


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| Upper and lower bounds |  | 6 | N15 (part), N16 |  |
| Manipulating Decimals | D | 4 | N 2 (part) |  |
| Using a calculator | D | 4 | s |  |
| Section 3: Algebra |  |  |  |  |
| Understand variables, terms, equations, identities \& expressions (understand the $\neq$ symbol (not equal)) | F | 2 | N1 (part) A3 |  |
| Collecting Like Terms | E | 3 | A4 (part) |  |
| Basic algebra (using algebra notation) | E | 3 | A1 |  |
| Use of function machines |  | 3 | A7 |  |
| Substitution | C/D | 4 | A2 |  |
| Co-ordinates including solving geometrical problems | E | 3 | A8 | $\begin{aligned} & \frac{\tilde{n}}{\ddot{0}} \\ & \stackrel{\omega}{\omega} \\ & m \end{aligned}$ |
|  |  |  | G11 |  |
| Simplify expressions including index laws |  | 4 | A4 (part) |  |
| Drawing straight line graphs including identifying parallel lines from an equation | C | 4 | A9 (part) |  |
| Use gradients and intercepts |  | 4 | A10 |  |
| Finding the equation of a line given two points or one points and a given gradient |  | 5 | A9 (part) |  |
| Use direct and inverse proportion graphically and algebraically |  | 6 | R10 |  |
| Equations, Identities and proof |  | 6 | A6 |  |
| Real life graphs | D | 4 | A14 |  |
| Quadratic, Cubic \& Reciprocal Graphs | B | 6 | A12 |  |


| Section 4: Sequences |  |  |  |
| :---: | :---: | :---: | :---: |
| Generate terms of a sequence | 3 | A23 | $$ |
| Recognise and use a square, triangular and Fibonacci sequences | 4 | A24 (part) |  |
| Recognise and use nth term including quadratic sequences | 4 | A24 (part) |  |
| Find the nth term of a linear sequence | 5 | A25 |  |


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| Recognising geometric seqences where ratio is not a surd |  | 6 | A24 (part) | $\xrightarrow{\text { U }}$ |
| Section 5: Handling Data |  |  |  |  |
| Using averages and range (understand what an outlier is) | E | 3 | S4 (part) | $\begin{aligned} & \frac{\tilde{n}}{\sim} \\ & \stackrel{\sim}{\omega} \\ & \sim \end{aligned}$ |
| When to use each type of average | E | 3 | S5 |  |
| Averages and Range from a frequency table | E | 3 | S4 (part) |  |
| Collecting and Recording Data | E | 3 | S2 (part) | $$ |
| Sampling (including the difference between a population and a sample) | D | 4 | S1 (part) |  |
| Limitations of sampling |  | 4 | S1 (part) |  |
| Two way tables | C/D | 5 | S1 (part) |  |
|  |  |  |  |  |
| Section 6: Algebra |  |  |  |  |
| Expressions with powers | E | 3 | N6 |  |
| Expanding brackets (including double brackets) | E | 3 | A4 (part) |  |
| Writing numbers in standard form | E | 3 | N9 (part) |  |
| Factorising | C | 5 | A4 (part) |  |
| Factorising quadratics where the coefficient of $\mathrm{x}^{2}$ is 1 | B | 5 | A4 (part) |  |
| Solving Equations | D | 4 | A17 |  |
| Solving Inequalities | C | 5 | A22 |  |
| Solving Quadratics |  | 6 | A18 |  |
| Recognise the difference of two squares |  | 6 | A4 (part) |  |
| Roots, Intercepts, turning points of quadratics |  | 6 | sequences |  |
| Calculations using standard form |  | 6 | N9 (part) |  |
| Deriving \& solving simultaneous equations algebraically \& graphically |  | 6 | A19, A21 |  |
| Using Formulae | C | 5 | A2 |  |
| Rearranging Formulae | C | 5 | A5 |  |
| Section 7: Number |  |  |  |  |
| Equivalent Fractions | E | 3 | N1 (part) |  |


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| Ordering Fractions | E | 3 | N1 (part) | $$ |
| Improper Fractions | E | 3 | N 2 (part) |  |
| Express one quantity as a fraction of another |  | 3 | R3 |  |
| Multiplication and Division of fractions | D | 4 | N2 (part) |  |
| Addition and Subtraction of fractions | D | 4 | N 2 (part) | $\begin{aligned} & \frac{\tilde{n}}{\ddot{0}} \\ & \stackrel{\sim}{3} \\ & m \end{aligned}$ |
| Calculate exactly with fractions and multiples of $\pi$ |  | 4 | N8 |  |
| Work interchangeably with terminating decimals and their corresponding fractions |  | 4 | N10 |  |
| Converting between FDP | D | 4 | N12 |  |
| Section 8: Number |  |  |  |  |
| Working out the percentage of a quantity | E | 3 | R9 | ॅ\#\#- |
| Working out the percentage of a quantity (using a calc) | D | 4 |  |  |
| Percentage Increase and Decrease | C/D | 5 | R9 | n <br> $\#$ <br>  <br>  |
| Writing one number as a percentage of another | C/D | 5 |  |  |
| Calculating percentage change (profit \& loss) |  | 5 |  |  |
| Reverse Percentages |  | 5 |  |  |
| Solve problems involving compound interest |  | 6 | R16 |  |
| Set up, solve and interpret growth and decay problems |  | 6 |  |  |
| Section 9: Data Handling |  |  |  |  |
| Pictograms | G | 1 | S2 (part) | $\begin{aligned} & \frac{\tilde{n}}{\ddot{0}} \\ & \sum_{m}^{0} \\ & \hline \end{aligned}$ |
| Pie Charts | D | 4 | S2 (part) |  |
| Bar Charts | E | 3 | S2 (part) |  |
| Composite Bar charts | D | 4 | S2 (part) |  |
| Frequency Diagrams | D | 4 | $\underline{\text { S2 (part) }}$ | $\stackrel{\sim}{0}$ |
| Scatter graphs \& Correlation (know that correlation does not imply causality) |  | 4 | S6 | ¢ $\sim$ $\sim$ |
| Section 10: ShapE |  |  |  |  |
| Naming angles | G | 1 | $\underline{\text { G14 (part) }}$ |  |


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| Measuring angles | F | 2 | G14 (part) | nn\#3$m$ |
| Angles on straight lines and around a point | E | 3 | G3 (part) |  |
| Angles in triangles and quadrilaterals | E | 3 | G3 (part) |  |
| Derive angles in a triangle |  | 4 | G3 (part) |  |
| Angles on parallel lines | D | 4 | G1 (part) | $\begin{aligned} & \frac{n}{\varpi} \\ & \stackrel{0}{\otimes} \\ & \stackrel{1}{3} \end{aligned}$ |
| Angles in polygons (Use the standard convention for labelling sides and angles of polygons) | D | 4 | G1 (part) |  |
| Tessellations (including angles at a point) | C/D | 4 | G1 (part) |  |
|  |  |  |  |  |
| Section 11: Number |  |  |  |  |
| Writing numbers in a ratio | F | 2 | R4 (part) | $$ |
| Simplifying ratio | E | 3 | $\underline{\text { R4 (part) }}$ |  |
| Dividing in a given ratio | C/D | 4 | R5 |  |
| Identify and work with fractions in ratio problems |  | 5 | N11 |  |
| Proportion (eg recipes) | C | 5 | R7 |  |
| Express a multiplicative relationship between two quantities as a ratio or a fraction (equivalent ratios) |  | 5 | $\underline{\text { R6 }}$ |  |
| Ratio problems (ratio as a linear function) |  | 5 | R8 |  |
| Compare lengths, areas and volumes using ratio notation; make links to similarity and scale factors |  | 5 | R12 | n\#N$\sim$ |
| Direct and Inverse proportion equations including concept of inverse proportion |  | 6 | R13 |  |
| Interpret gradient as a rate of change and graphs that illustrate direct and inverse proportion |  | 6 | $\underline{\text { R14 }}$ |  |
| Section 12: Shape |  |  |  |  |
| Pythagoras' Theorem | C | 5 | G6 (part) |  |
|  |  |  | G20 (part) |  |
| Trigonometry | B | 6 | G20 (part) |  |
| Know the exact values of sin, cos and tan of key angles (0, 30, 45, 60, 90) |  | 6 | G21 |  |


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| Section 13: Data Handling |  |  |  |  |
| Calculating simple probabilities | E | 3 | P1 | $\begin{aligned} & \stackrel{\sim}{\ddot{0}} \\ & \stackrel{\sim}{\sim} \\ & \sim \end{aligned}$ |
| Apply ideas of randomness, fairness and equally likely events to calculate expected outcomes of multiple future experiments [S] |  | 4 | P2 |  |
| Mutually exclusive events | D | 4 | P4 |  |
| Listing outcomes | D | 4 | P7 |  |
| Estimating probability | D | 4 | P3, P5 |  |
| Tree Diagrams |  | 6 | P8 |  |
| Venn Diagrams |  | 6 | P6 |  |
| Section 14: Shape |  |  |  |  |
| Perimeter \& Area including compound shapes | E | 3 | $\frac{\text { G14 (part), G16 }}{(\text { part })}$ | n <br> \# <br>  <br> $m$ |
| Reading Scales | E | 3 | N13 |  |
| Speed and Density calculations (including calculating pressure) | E | 3 | R1, R11 |  |
| Volume and surface area of prisms | B/C | 6 | G16 (part) |  |
| Circumference and Area of a circle (using multiples of $\pi$ ) | C/D | 4 | G17 |  |
| Arc length and area of a sector |  | 6 | $\underline{\text { G18 }}$ |  |
| Transformations (including fractional scale factors) | C | 5 | $\underline{\text { G7 }}$ |  |
| Describe translations as 2D vectors |  | 5 | G24 |  |
| Vectors |  | 6 | G25 |  |


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