| Term | Week | Lessons |  |
| :---: | :---: | :---: | :---: |
| چ | $\begin{aligned} & 1 \text { and } \\ & 2 \end{aligned}$ | 6 | Calculating with Percentages: R9 |
|  |  |  | Recap of basic percentages - FDP equivalents, one amount as a percentage of another and percentage of an amount (both with and without a calculator) |
|  |  |  | Recap of basic percentages - FDP equivalents, one amount as a percentage of another and percentage of an amount (both with and without a calculator) |
|  |  |  | Finding the percentage change when given the amounts |
|  |  |  | Percentage increase and decrease. By addition \& subtraction. Include simple interest |
|  |  |  | Use of multipliers \& reverse percentages (finding the original value) (E set don't do this) (Compound interest and repeated change is in Y11) |
|  |  |  | Mixed exam questions on all percentages |
|  | 3 | 3 or 4 | Measures: N16, G14, N13, R1, R11 |
|  |  |  | Revision of metric units used for used for length, volume, mass and their metric conversions. |
|  |  |  | Compound measures - Speed, density and pressure. |
|  |  |  | Limits of accuracy with measures (N16) (E set don't do this) |
|  |  |  | Mixed exam question practice on these topics |
|  | $\begin{gathered} 4 \text { and } \\ 5 \end{gathered}$ | 6 | Statistical Measures: S4, S5, S1 |
|  |  |  | Revise finding mean, median, mode and range from a list (and creating a list when given the mean, median, mode and range). Revise meaning of discrete and continuous and outlier. |
|  |  |  | Revise finding mean, median, mode and range from a frequency table and a bar chart |
|  |  |  | Revise finding mean, median, mode and range from a grouped frequency table. Discuss disadvantages of grouped data |
|  |  |  | Comparing two data sets |
|  |  |  | Sampling - definition of sample/population, methods of sampling, using sample data to predict for population (limitations of sampling) |
|  |  |  | Mixed exam questions on statistics |
|  | 6 | 3 or 4 | 2D representations of 3D shapes: G13 |
|  |  |  | Revise names of 3d shapes and faces, edges \& vertices. Draw plan, front and side elevation of cube, cylinder, cone, prism etc |
|  |  |  | Nets - draw nets of 3D shapes. Interpret nets and predict the 3D shape they will make. |
|  |  |  | Isometric drawing and plans and elevations with cubes |
|  |  |  | Mixed exam questions on this topic or make some more 3d shapes from nets |
|  | 7 | 3 or 4 | Revision and assessment |
|  |  |  | Revision lesson |
|  |  |  | Assessment |


| $\begin{aligned} & \text { N } \\ & \frac{C}{\varepsilon} \\ & \frac{D}{2} \\ & \frac{1}{<} \end{aligned}$ | $8 \text { and }$ | 6 | Properties of Polygons: G3, G4 |
| :---: | :---: | :---: | :---: |
|  |  |  | Revise angle properties and angles in parallel lines (from year 9 week 1) |
|  |  |  | Triangles - names \& properties, calculating missing angles and sides |
|  |  |  | Quadrilaterals - names, properties and missing angle calculations |
|  |  |  | Polygons (1) - Names of polygons and calculation of interior and exterior angles |
|  |  |  | Mix of exam questions (including problem solving type) on angles in polygons and parallel lines |
|  |  |  | Algebra Recap and Extension: A3, A4, A35, A17 |
|  | 10 and 11 | 6 | Recap vocabulary and expanding and factorising (with single term outside) |
|  |  |  | More complex expanding and factorising with multiple terms outside bracket and negatives |
|  |  |  | Solve equations with balance method two step including with brackets |
|  |  |  | Solve equations with unknowns on both sides |
|  |  |  | Find the nth term of linear sequence |
|  |  |  | Exam questions practice |
|  |  |  | Construction and Loci: G2 |
|  | 12 and 13 | 5 | Construct triangles |
|  |  |  | Construct perpendicular bisector, perpendicular from given point to line, perpendicular from point on line and parallel lines |
|  |  |  | Construct angle bisector, 60 degree angle, 90 degree angle, 45 degree angle |
|  |  |  | Construct loci and start to solve loci problems in context |
|  |  |  | Revision lesson |
|  | 14 | 2 or 3 | Catch up week |
|  |  |  | More time on loci and constructions as needed |
|  |  |  | Extra time to catch up on any topics from the term |
|  |  |  | Number work or Christmas fun! |
| -O등in |  |  | Simultaneous Equations |
|  | $\begin{gathered} 15 \\ \text { and } \\ 16 \end{gathered}$ | 5 or 6 | Solve simultaneous equations by elimination where one variable has the same coefficient |
|  |  |  | Solve linear simultaneous equations by elimination where neither variable has the same coefficient |
|  |  |  | Solve simultaneous equations by substitution where one variable has the same coefficient |
|  |  |  | Solve linear simultaneous equations in context (forming the equations) |
|  |  |  | Solve linear simultaneous equations from graphs |
|  |  |  | More practice as required |
|  |  |  | Further Perimeter and Area: G12, G16, G17 |
|  | $\begin{gathered} 17 \\ \text { and } \\ 18 \end{gathered}$ | 6 | Perimeter and area of rectangles, parallelograms, triangles and trapeziums |
|  |  |  | Perimeter and area of rectangles, parallelograms, triangles and trapeziums |
|  |  |  | Area of composite shapes |


|  |  |  | Surface area of cuboids and prisms |
| :---: | :---: | :---: | :---: |
|  |  |  | Surface area of pyramids and composite solids |
|  |  |  | Mix of problem-solving area exam questions |
|  |  |  | Revision and assessment |
|  | 19 | 3 | Catch up |
|  | 20 | 3 | Revision |
| $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { C } \\ & \sim \end{aligned}$ | $\begin{gathered} \hline 21 \\ \text { and } \\ 22 \end{gathered}$ |  | EXAM FORTNIGHT |
|  |  |  | Probability |
|  | 23 | 3 | Basic probability recap |
|  |  |  | Frequency trees to show probability |
|  |  |  | Sample space diagrams |
|  | $\begin{gathered} 24 \\ \text { and } \\ 25 \end{gathered}$ | 6 | Linear Graphs: A9, A10, A21 |
|  |  |  | Draw straight line graphs from a table of values |
|  |  |  | Draw straight line graphs from a table of values |
|  |  |  | $y=m x+c$ and gradient and intercept / identifying parallel lines |
|  |  |  | Equation of a line through 2 points |
|  |  |  | Exam questions to practise skills |
|  | 26 | 3 | Congruence and Similarity: G5, G6, G19 |
|  |  |  | Definition of congruence and conditions for congruent triangles, |
|  |  |  | Definition of similarity and identification of similar shapes |
|  |  |  | Calculation of scale factor and missing sides and angles and perimeters in similar shapes (G19) |
| $\begin{aligned} & \overline{\overline{0}} \\ & \stackrel{1}{\varepsilon} \\ & \varepsilon \\ & \vdots \end{aligned}$ | 27 | 3 | Congruence and Similarity: G5, G6, G19 |
|  |  |  | Mix of geometrical problem solving (G6) inc Pythagoras and isosceles triangles |
|  |  |  | Mix of geometrical problem solving (G6) inc Pythagoras and isosceles triangles |
|  |  |  | Mix of geometrical problem solving (G6) inc Pythagoras and isosceles triangles |
|  | $\begin{gathered} 28 \\ \text { and } \\ 29 \end{gathered}$ | 6 | Further Circumference and Area: G9, G17, G18, N8 |
|  |  |  | Properties and vocabulary of circles, area and perimeter of circles formulae |
|  |  |  | Apply formula for area of a circle to circles and sectors inc in terms of pi |
|  |  |  | Apply formula for perimeter of circle to circles and sectors including in terms of pi |
|  |  |  | Area and perimeter of composite shapes including circles |
|  |  |  | Surface area of cylinder and cone |
|  | $\begin{gathered} 30 \\ \text { and } \\ 31 \end{gathered}$ | 5 or 6 | Volume |
|  |  |  | Volume of cuboid and prism |
|  |  |  | Volume of cylinder including exact with pi |
|  |  |  | Volume of spheres, pyramids and cones |
|  |  |  | Volume of composite solids |
|  |  |  | Extra time for volume or topics done badly in the exam |
|  | 32 | 3 or 4 | Catch up |


| $\begin{aligned} & N \\ & \stackrel{N}{\Phi} \\ & \varepsilon \\ & E \\ & \vdots \end{aligned}$ | $\begin{gathered} 33 \\ \text { and } \\ 34 \end{gathered}$ | 6 | Probability |
| :---: | :---: | :---: | :---: |
|  |  |  | Two-way tables |
|  |  |  | Venn diagrams |
|  |  |  | Tree diagrams |
|  | 2/4/1 | 2 or 3 | Number work |
|  | 900 |  | Number work depending on class |
|  |  |  | Transformations: G7, G11 (or other geometry depending on exam questions done badly) |
|  | 36 |  | Area and perimeter of composite shapes including circles |
|  | and | 6 | Translations |
|  | 37 |  | Rotations |
|  |  |  | Enlargements |
|  |  |  | Geometry recap |
|  |  |  | Algebra recap (depending on exam questions done badly) |
|  |  |  | Collecting like terms and laws of indices (A4) |
|  | and | 6 | Expanding and factorising single brackets |
|  | $39$ |  | Solving equations |
|  |  |  | Substituting into formulae |
|  |  |  | Plotting $\mathrm{y}=\mathrm{mx}+\mathrm{c}$ graphs and recognising gradient and intercept |
|  |  |  | Any other additional algebra practice as required |

