## Maths Long Term Plan Year 7

## Temperance Term

| W/C | 1 | 2 | 3 |  | 4 |  | 5 | 6 | 7 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Topic | Number 1 |  |  |  |  |  |  |  | Proportional Reasoning 1 |  |
| Core <br> learning for <br> all sets <br> Core <br> learning for <br> sets 1-2 |  | Baseline Assessment | Four operations <br> Multiplication. Column or grid method for ding multiplication. Positive integers. Decimals if <br> secure. Up to 4-digit numbers by 2-digit numbers. <br> Move pupils away from using "remainders". Inverse operations for checking calculations. Create related arithmetic facts. <br> facts. |  |  |  |  |  |  |  |
| Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic. |  |  |  |  |  |  |  |  |  |
| Assessment |  |  |  |  |  |  |  |  | Progress Check |  |  |  |
| W/C | 8 | 9 | 10 |  | 11 |  | 12 | 13 | CHRISTMAS |  |
| Topic | Assessment 1 | Proportional Reasoning 1 |  |  |  |  |  |  |  |  |  |
| Core learning for all sets Core learning for sets 1-2 | Revision and delivery of assessment | Fractions$\qquad$$\qquad$ a fraction of anothe$\qquad$ (including fractions with different denominators, |  | Ratio <br> Ratios. Write a ratio to describe a shaded diagram <br> implifying ratios. Use common factors (HCF) to fully simplify ratios. Do this for $2-$ <br> form $1: n$ or $n: 1$. Equivalent ratios. Use multiples to find equivalent ratios. Given an initial ratio, <br> find an equivalent ratio where one part is given. Sharing in a given ratio. Use division and multiplication to do this for 2-part and 3- <br> part ratios. |  |  | Proportion <br> problems involving direct proportion. Use unitary method where possible to solve <br> and multiples may also be used but the unitary method must be understood. |  |  |  |  |
| Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic. |  |  |  |  |  |  |  |  |  |  |  |
| Assessment | Formal, summative |  |  |  |  | Prog | ess Check |  |  |  |  |

## Maths Long Term Plan Year 7

## Justice Term



Maths Long Term Plan Year 7

## Courage Term

| W/C | 27 | 28 | 29 | 30 | 31 | 31 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Topic | Geometry 1 |  | Algebra 2 |  |  |  |  |
| Core learning for all sets Core learning for sets 1-2 | Surface Area <br> Identify properties and names of 3D shapes. <br> Match nets to shapes. <br> Sketch nets of shapes. <br> Calculate the surface area of cubes and cuboids. Calculate the surface area of prisms and cylinders Calculate exactly (in terms of pi). |  | Solving equations <br> Solve 1-step equations by balancing and using inverse operations. Include equations with fractional and/or negative solutions. <br> Solve 2 -step equations by balancing and using inverse operations. Include equations with fractional and/or negative solutions. <br> Solve equations involving a single bracket. Solve equations with multiple sets of single brackets. Include equations with fractional and/or negative solutions. <br> Solve equations where the variable appears on both sides Solve equations with single brackets where the variable appears on both sides. |  | Rearranging formulae <br> Change the subject of simple equations and Change the subject when there are more th Change the subject when everything is a va Change the subject when the intended sub | rmulae containing only two variables. two variables <br> ble. <br> appears on both sides of the equation. |  |
| Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic. |  |  |  |  |  |  |  |
| Assessment |  | Progress Check |  |  | Progress Check |  |  |
| W/C | 32 | 33 | 34 | 35 | 36 | 37 |  |
| Topic | Assessment 3 |  | ra 2 |  | Statistics 1 |  |  |
| Core learning for all sets Core learning for sets 1-2 |  | Inequalities <br> Writing and interpreting single and Identifying integers that satisfy a <br> Solve 1- and 2-step inequalities. Represent the answers on a num Interpret inequalities on a numb | qualities. | Data collection <br> Distinguish between quantitative and qualitative, discrete and continuous, grouped and ungrouped. Identify categorical data. Distinguish between primary and secondary data. <br> Interpret and create tally charts and frequency tables. <br> Complete a partially filled in two-way table. <br> Construct and complete a two-way table from given information. <br> Read frequencies from a two-way table. <br> Complete a partially filled in frequency tree. <br> Construct and complete a frequency tree from given information. Read frequencies from a frequency tree. | Representing data (univariate) <br> Used for categorical data Interpret and construct pictograms. Complete partially filled in pictograms. <br> Bar charts are used for categorical data. Vertical line charts are used for ungrouped discrete data. <br> Construct, complete and interpret bar charts and vertical line graphs from frequency tables. Do the same with dual bar charts and composite bar charts. <br> nterpret and describe trends in a time series graph. Construct a time series graph with given data. | Representing data (bivariate) <br> Construct scatter graphs from given bivariate data. <br> Describe the relationship between two variables (if any). <br> Identify the type of correlation (if any). Identify data points that do not fit the general pattern. <br> LoBF and predictions <br> Draw an estimated line of best fit (linear only). <br> Use interpolation and extrapolation to predict. | $\sum_{\substack{\text { © }}}^{\stackrel{\omega}{\mathbf{\omega}}}$ |

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| :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| Assessment | Ks3 Internal Exams |  |  | Progress Check |  |  |  |  |  |

