## : Year 7/8 Respite Curriculum and Assessment Map

| 7 and 8 Respite |  |  | Subject |  |  |  |
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| Year 7 Mathematics encourages the development of knowledge and understanding in Maths. <br> The curriculum is designed to allow students the opportunity to: <br> - Develop mathematical knowledge and conceptual understanding through the disciplines of Number, Algebra, Ratio and Proportion, Statistics and Geometry <br> - Develop an understanding of the nature, processes, and methods of Mathematics, through mathematical enquiries that help them to answer mathematical, computing, and scientific questions about the world around them <br> - Develop and learn to apply logical thinking, enquiry, and problem-solving skills in any field and in other learning environments <br> - Develop their ability to evaluate claims through critical analysis and about the world around them |  |  |  |  |  |  |
| Implement | September - December |  | Jan | - March |  | ril - July |
|  | Numbers <br> 1.1 Calculations N3 N6Use priority of operations with positive and negative numbers. Simplify calculations by cancelling. Use inverse operations. <br> 1.2 Decimal numbers <br> N2 N13 N15 Round to a given number of decimal place. <br> Multiply and divide decimal numbers. <br> 1.3 Place value <br> N14 N15Write decimal numbers of millions. <br> Round to a given number of significant figures. | 2.1-3 Algebraic expressions Use correct algebraic notation. <br> Write and simplify expressions. <br> Use the index laws. Multiply and divide expressions. <br> Substitute numbers into expressions. <br> 2.4 Formulae Recognise the difference between a formula and an expression. <br> Substitute numbers into a simple formula. <br> 2.5 Expanding brackets Expand brackets. <br> Simplify expressions with brackets. | 3.1 Frequency tables Designing tables and data collection sheets. <br> Reading data from tables. <br> 3.2 Two-way tables Use data from tables. <br> Design and use two-way tables. <br> 3.3 Representing data Draw and interpret comparative and composite bar charts. <br> Interpret and compare data shown in bar charts, line graphs and histograms. <br> 3.4 Time series <br> Plot and interpret time | 4.1 Working with fractions Compare fractions. <br> Add and subtract fractions. <br> Use fractions to solve problems. <br> 4.2 Operations with fractions Find a fraction of a quantity or measurement. <br> Use fractions to solve problems. <br> 4.3 Multiplying fractions Multiply whole numbers, fractions and mixed numbers. <br> Simplify calculations by cancelling. | 5.1 Solving equations 1 Understand and use inverse equations. <br> Rearrange simple linear equations. <br> Solve simple linear equations. <br> 5.2 Solving equations 2 <br> Solve two-step equations. <br> 5.3 Solving equations with brackets <br> Solve linear equations with brackets. <br> Solve equations with unknowns on both sides. 5.4 Introducing inequalities Use correct notation to show inclusive and exclusive | 7.1 Mean and range Calculate the mean from a list and from a frequency table. <br> Compare sets of data using the mean and range. <br> 7.2 Mode, median and range Find the mode, median and range from a stem and leaf diagram. <br> Identify outliers. <br> Estimate the range from a grouped frequency table. <br> 7.3 Types of average Recognise the advantages and disadvantages of each type of average. <br> Find the modal class. |

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| factors. <br> Use prime factor decomposition and Venn diagrams to find the HCF and LCM. |  |  | Use percentages in real-life situations. <br> Calculate VAT (value added tax | 6.1 Properties of shapes Solve geometric problems using side and angle properties of quadrilaterals. <br> Identify congruent shapes. <br> 6.2 Angles in parallel lines Understand and use the angle properties of parallel lines. <br> Find missing angles using corresponding and alternate angles. <br> 6.3 Angles in triangles Solve angle problems in triangles. <br> Understand angle proofs about triangles. <br> 6.4 Exterior and interior angles <br> Calculate the interior and exterior angles of regular polygons. <br> 6.5 More exterior and interior angles <br> Calculate the interior and exterior angles of polygons. <br> Explain why some polygons fit together and some others do not | Calculate the surface area of a prism. <br> 8.5 Volume of prisms Calculate the volume of a cuboid. <br> Calculate the volume of a prism. 8.6 More volume and surface area Solve problems involving surface area and volume. <br> Convert between measures of volume. |
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