## Mathematics

## Year 6: Spring Term

Maths Cultural Capital = In every lesson, where possible, try to include pedagogy so pupils are expected to apply their maths knowledge and skill to different problems and subject contexts across the curriculum.
Differentiation - Please see teachers' weekly planning for challenging the exceeding pupils and ensuring access for the emerging pupils. Also, refer to the SEND pupils IEP's to ensure their needs are included.
Minimum expectations for AfL strategies in Maths lessons = targeted questioning, mini whiteboards, peer talk, modelling.
Developing pupils' long term memory skills - use - LAST/LAST/LAST strategy linked to WALTs for the lesson.

| Term | Week | National Curriculum Statement | WALT Intent | Success Criteria Impact | Key Questions and NC skills developed in the activities Implementation | Resources | Vocabulary |
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| Spring 1 | Week 1 <br> Algebra | Use simple formulae <br> Generate and describe linear number sequences <br> Express missing number problems algebraically <br> Find pairs of umbers that satisfy an equation with two unknowns <br> Enumerate possibilities of combinations of two variables | WALT: <br> 1a. <br> Use simple formulae <br> $1 b$. <br> Generate and describe linear number sequences 1c <br> Express missing number problems algebraically 1d <br> Find pairs of numbers that satisfy an equation with two unknowns $1 e$ <br> Enumerate possibilities of combinations of two variables | I can use simple formulae to solve problems <br> I can express missing numbers algebraically <br> I can Use simple formulae <br> Generate and describe linear number sequences <br> Express missing number problems algebraically <br> Find pairs of umbers that satisfy an equation with two unknowns |  | Digit cards counters | Positive Sum Product Commutative associative <br> Algebraic <br> Variable <br> Equation <br> Formula <br> Unknowns <br> Algebra <br> Linear number sequences Nth term |




|  | Week 5 <br> Geometry: properties of shapes <br> Geometry: position and direction | Draw 2-D shapes using given dimensions and angles <br> Recognise, describe and build simple 3- <br> D shapes, including making nets <br> Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons <br> Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius <br> Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes | WALT: <br> $1 a$. <br> Draw 2-D shapes using given dimensions and angles <br> 1 b. <br> Recognise, describe and build simple 3D shapes, including making nets. <br> 1c. <br> Compare and classify geometric shapes. <br> 1d. <br> Illustrate and name parts of circles. <br> 1d. <br> Describe positions on the full coordinate grid | I can use given dimensions to draw 2D shapes. <br> I can build simple 3D shapes <br> I can compare and classify geometric shapes <br> I can illustrate and name parts of a circle. <br> I can describe on a full quadrant |  | Compass <br> Protractors <br> 3 D nets <br> 3 D shapes | Dimension Angles Nets Geometric Properties Radius Diameter Circumference Coordinate Quadrant Translate Axes reflect |
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|  | Week 6 <br> Measurement | Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimeters ( $\mathrm{cm}^{3}$ ) and cubic metres ( $\mathrm{m}^{3}$ ) and extending to other | WALT: <br> Calculate, estimate and compare volume of cubes and cuboids using standard units, | I can compare and calculate volume of cubes in standard units. <br> I can estimate the volume of cubes using standard units. |  |  | Volume Cubes Standard units Cubic metres/centimetres $\mathrm{Mm}^{3}$ |


|  | Ratio and proportion | units,[for example, $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$ ] <br> Solve problems involving similar shapes where the scale factor is known or can be found. |  |  |  |  |  |  |
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| Spring 2 | Week 1 |  |  |  |  |  |  |  |
|  | Week 2 |  |  |  |  |  |  |  |
|  | Week 3 |  |  |  |  |  |  |  |
|  | Week 4 |  |  |  |  |  |  |  |
|  | Week 5 |  |  |  |  |  |  |  |
|  | Week 6 |  |  |  |  |  |  |  |

