| Academic Year 2023-2024 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \sim \end{aligned}$ | Linear Equations: Graphically and algebraically <br> - Working with linear functions <br> -Understanding gradient and intercept ( $\mathrm{y}=\mathrm{mx}+\mathrm{c}$ ) | Linear equations <br> Constant <br> - Solving linear equations in one variable (unknown on one side) | Linear equations with unknowns on both sides <br> - Solving linear equations in one variable (unknowns on both sides) | Linear equations: graphically and algebrically <br> - Working with graphs of linear functions <br> - Understanding gradient and intercept $(\mathrm{y}=\mathrm{mx}+\mathrm{c}$ ) | Rearranging and solving linear equations <br> $A=$ area of a circle $r=$ radius $A=\pi r^{2} \quad r=?$ <br> - Solving linear equations in one variable (inc rearranging) |

## Academic Year 2023-2024



| Academic Year 2023-2024 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $$ | Diagrams and constructions <br> - Working with scale diagrams and maps <br> - Constructing similar shapes using enlargement | Multiples. Factors and primes $30=2 \times 3 \times 5$ $20=2 \times 2 \times 5$ <br> - Working with prime factors LCM and HCF | Arithmetic with fractions <br> - Arithmetic with mixed numbers (inc negative) | Percentages <br> -Considering fractions and percentages as operators <br> -Working with percentages and percentage changes using fractions or decimals |


| Academic Year 2023-2024 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} 0 \\ 0 \\ 0 \\ 0 \\ \boldsymbol{0} \\ \sim \end{gathered}$ | Ratio and percentage change <br> -Understand that a multiplicative relationship between two quantities can be expressed as a ratio or fraction <br> -Solving percentage change problems <br> -Relating ratios to fractions and functions | Solving problems with measures and time <br> -Converting between units of metric measure <br> -Using approximate metric and imperial equivalences <br> -Solving problems involving converting between units of time <br> -Solving problems involving measure inc decimals and scaling | Parallel, alternate and corresponding <br> -Understanding alternate and corresponding angles | Angles and polygons <br> - Deriving angle sum of triangles and regular polygons |

## Academic Year 2023-2024



| Academic Year 2023-2024 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { o } \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | Translations and reflections <br> -Using coordinates to describe position <br> -Translating and reflecting shapes on a coordinate plane | Translations rotations and reflections <br> -Describing translations, rotations and reflections | Geometrical relationships and Pythagoras' theorem <br> -Interpreting mathematical relationships <br> -Deriving results about angles and side lengths | Pythagoras' theorem and trigonometry in right-angled triangles <br> - Using Pythagoras' theorem and trigonometric ratios to solve problems involving rightangled triangles |




