**Note: Objectives in blue are additional higher content for extension**
Maths home Learning is completed using Century Learning.

| Half Term 1 |  |
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| Date | Curriculum Overview |
| WC 29/08 | Prime Number and Proof <br> - Identify factors of a number <br> - Identify multiples of a number <br> - Find the HCF, LCM of two numbers <br> - Write a number as a product of its prime factors |
| WC 12/09 <br> WC 19/09 <br> WC 26/09 | Ratio and Scale <br> - Understand ratio and its link to multiplication <br> - Circumference of a circle <br> - Use ratio notation <br> - Reduce ratios to simplest form <br> - Solve ratio problems <br> - Ratio in the form 1:n <br> - Comparing ratios |
| WC 03/10 WC 10/10 | Multiplicative Change <br> - Use Scale factors, linking to ratio, to solve simple directional proportion problems <br> - Explore conversion graphs <br> - Convert between currencies <br> - Explore direct proportion graphs (H) <br> - Explore relationships between similar shapes <br> - Understand scale factors as multiplicative representations <br> - Draw and interpret scale diagrams <br> - Interpret maps using scale factors and ratio <br> - Scale diagrams and maps |
| Date | Curriculum Overview |
| WC 31/10 | Multiplying and dividing fractions <br> - Represent multiplication of fractions <br> - Multiply a fraction by an integer <br> - Find the product of a pair of unit fractions <br> - Find the product of a pair of any fractions <br> - Divide an integer by a fraction <br> - Divide a fraction by a unit fraction <br> - Understand and use the reciprocal <br> - Divide any pair of fractions <br> - Multiply and divide improper and mixed fractions <br> - Multiply and divide algebraic fractions <br> Multiplying and dividing mixed numbers |
| WC 14/11 <br> WC 21/11 <br> WC 28/11 | Working in a Cartesian plane <br> - Plotting and interpreting straight line graphs <br> - Equations of lines parallel to the axes <br> - Model situations by translating them into expressions, formulae and graphs <br> - Find the equation of a straight line (H) <br> - Find the mid-point of a line segment (H) <br> - Find the gradient of a line segment (H) |


|  | - Drawing quadratic graphs (H) |
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| WC 05/12 | Revision and assessment |
| WC 12/12 | Collecting and Representing data <br> - $\quad$ Scatter graphs and correlation (and line of best fit) <br> - Listing outcomes <br> - Read, interpret and collect data in frequency tables <br> - Represent and interpret data in two way tables |
| Date | Curriculum Overview |
| WC 02/01 | Collecting and Representing data <br> - $\quad$ Scatter graphs and correlation (and line of best fit) <br> - Listing outcomes <br> - Read, interpret and collect data in frequency tables <br> - Represent and interpret data in two way tables |
| WC 09/01 | Tables and Probability (Further) <br> - Sample space diagrams <br> - Probabilities from two way tables <br> - Probabilities from venn diagrams <br> - Product rule for number of outcomes (H) |
| WC 23/01 <br> WC 30/01 <br> WC 06/02 | Brackets, equations and inequalities <br> - Forming and using expressions, formulae and identities <br> - Multiplying out single brackets <br> - Factorise into a single bracket <br> - Forming and solving equations and inequalities, with and without brackets <br> - $\quad$ Solving equations with unknowns on both sides <br> - Expanding binomials |
| Date | Curriculum Overview |
| WC 20/02 | Brackets, equations and inequalities <br> - Forming and using expressions, formulae and identities <br> - Multiplying out single brackets <br> - Factorise into a single bracket <br> - Forming and solving equations and inequalities, with and without brackets <br> - Solving equations with unknowns on both sides <br> - Expanding binomials |
| WC 27/02 | Sequences |
| WC 06/03 | - Generate sequences given a rule in words <br> - Generate sequences given a simple algebraic rule <br> - Generate sequences given a complex algebraic rule <br> - Find the rule for the nth term of a linear sequence <br> Indices <br> - Investigate positive powers of 10 <br> - Investigate negative powers of 10 <br> - Work with numbers in standard form <br> - Compare and order numbers in standard form <br> - Calculate with numbers in standard form <br> - Use a calculator to work with numbers in standard form <br> - Understand and use negative indices <br> - Understand and use fractional indices |
| WC 13/03 | Indices <br> - Investigate positive powers of 10 <br> - Investigate negative powers of 10 <br> - Work with numbers in standard form <br> - Compare and order numbers in standard form <br> - Calculate with numbers in standard form <br> - Use a calculator to work with numbers in standard form <br> - Understand and use negative indices <br> - Understand and use fractional indices |
| WC 20/03 | Revision and assessment |



- Calculate the area of a trapezium
- Investigate the area of a circle
- Calculate the area of a circle and parts of a circle without a calculator
- $\quad$ Calculate the area of a circle and parts of a circle with a calculator

Exam review and consolidation

