At Whiteheath Junior School Maths objectives, where appropriate, are integrated into foundation subjects as well as being taught discretely in daily maths lessons. These objectives have been highlighted in the foundation subjects below.

Year 3

Geography:

- Tell and write the time from an analogue clock, 12 and 24-hour clocks.
- Know the number of days in each month, year and leap year.
- Measure, compare, add and subtract lengths (m/cm/mm)
- Describe the position of an object using co-ordinates. (year 4 objective)
- Count backwards through zero to include negative numbers (year 4 objective)

History:

- Recognise the place value of each digit
- Compare and order numbers
- Solve problems including positive integer scaling

Science:

- Interpret and present data using bar charts, pictograms and tables.
- Compare data using bar charts, pictograms and tables.
- Use bar charts, pictograms and tables to present information.
- Measure, compare, add and subtract lengths (m/cm/mm)

DT:

- Measure, compare, add and subtract lengths (m/cm/mm)
- Draw 2-D shapes
- Make 3-D shapes using modelling materials
- Recognise 3-D shapes in different orientations and describe them.
- Measure, compare, add and subtract volume and capacity (l/ml, g/kg)

Computing:

- Draw 2-D shapes
- Interpret and present data using bar charts, pictograms and tables.

Year 4

Geography:

- Interpret and present data using bar charts, pictograms and tables.
- Solve problems involving integer scaling problems
- Describe positions on a 2-D grid as co-ordinates in the first quadrant.

History:

- Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.
- Interpret and present discrete and continuous data using appropriate graphical methods including bar charts and time graphs.
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Science:

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- Solve one-step and two-step questions using information presented in bar charts, pictograms and tables.
- Measure, compare, add and subtract mass (kg/g)

DT:

- Draw 2-D shapes
- Make 3D shapes using modelling materials
- Recognise 3-D shapes in the different orientations and describe them.
- Measure, compare, add and subtract lengths (m/cm/mm)
- Estimate measure

Computing:

- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
- Identify lines of symmetry in 2D shapes presented in different orientations.

PSHE:

- Estimate, compare and calculate different measures, including money in pounds and pence.

Year 5

Geography:

- Solve comparison, sum and difference problems using information presented in a line graph.
- Complete, read and interpret information in tables, including timetables.
- Describe positions on the full co-ordinate grid (year 6 objective)

History:

- To explore different number systems

Science:

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- Draw graphs relating to two variables.

DT:

- Convert between different units of metric measure.
- Use all four operations to solve problems involving measure using decimal notation, including scaling.
- Understand and use appropriate equivalences between metric units and common imperial units such as inches, pounds and pints.
- Complete, read and interpret information in tables.

Computing:

- Generate and describe linear number sequences (year 6 objectives)
- Compare and classify geometric shapes based on their properties and sizes
- Find unknown angles in any triangles, quadrilaterals and regular polygons (year 6 objective)
- Solve multi-step problems involving all four operations, up to two decimal places.

Year 6

Geography:

- Describe positions on the full co-ordinate grid (6 figure grid reference)
- Interpret and construct pie charts and line graphs and pie charts
- Compare between miles and kilometres

History:

- To understand the impact of Pythagoras and Archimedes
- Identify the value of each digit in numbers given to three decimal places
- Multiply one- digit numbers with up to two decimal places by whole numbers.
- Use written division methods in cases where the answer has up to two decimal place.
- Solve problems, which require answers to be rounded to specified degrees of accuracy.

DT:

- Solve problems the calculations and conversion of units of measure, using decimal notation up to three decimal places.
- Draw 2-D shapes using given dimensions and angles.
- Find unknown angles in any triangles, quadrilaterals and regular polygons.
- Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
- Measure, compare, add and subtract volume/capacity (l/ml)

Computing:

- Identify the value of each digit in numbers given to three decimal places
- Multiply one- digit numbers with up to two decimal places by whole numbers.
- Use written division methods in cases where the answer has up to two decimal place.
- Solve problems, which require answers to be rounded to specified degrees of accuracy.