

Beech Hill Primary School Scheme of Work: **Mathematics**

Term: Spring

Year Group: 6



1: Fractions

- Step 1** Multiply fractions by integers
- Step 2** Multiply fractions by fractions
- Step 3** Divide a fraction by an integer
- Step 4** Divide any fraction by an integer
- Step 5** Mixed questions with fractions
- Step 6** Fraction of an amount
- Step 7** Fraction of an amount – find the whole

2: Measures

- Step 1** Metric measures
- Step 2** Convert metric measures
- Step 3** Calculate with metric measures
- Step 4** Miles and kilometres
- Step 5** Imperial measures

3: Ratio

- Step 1** Add or multiply?
- Step 2** Use ratio language
- Step 3** Introduction to the ratio symbol
- Step 4** Ratio and fractions
- Step 5** Scale drawing
- Step 6** Use scale factors
- Step 7** Similar shapes
- Step 8** Ratio problems
- Step 9** Proportion problems
- Step 10** Recipes

4: Algebra

- Step 1** 1-step function machines
- Step 2** 2-step function machines
- Step 3** Form expressions
- Step 4** Substitution
- Step 5** Formulae
- Step 6** Form equations
- Step 7** Solve 1-step equations
- Step 8** Solve 2-step equations
- Step 9** Find pairs of values
- Step 10** Solve problems with two unknowns

5: Decimals

- Step 1** Place value within 1
- Step 2** Place value — integers and decimals
- Step 3** Round decimals
- Step 4** Add and subtract decimals
- Step 5** Multiply by 10, 100 and 1,000
- Step 6** Divide by 10, 100 and 1,000
- Step 7** Multiply decimals by integers
- Step 8** Divide decimals by integers
- Step 9** Multiply and divide decimals in context

6: Fractions, Decimals and Percentages

- Step 1** Decimal and fraction equivalents
- Step 2** Fractions as division
- Step 3** Understand percentages
- Step 4** Fractions to percentages
- Step 5** Equivalent fractions, decimals and percentages
- Step 6** Order fractions, decimals and percentages
- Step 7** Percentage of an amount — one step
- Step 8** Percentage of an amount — multi-step
- Step 9** Percentages — missing values

Vocabulary

Fraction. Multiply, integer, mixed number, divide, whole, part, calculate, inverse.
Measure, capacity, weight, mass, length, time, volume, metric, imperial, estimate, miles, kilometres, convert.
Ratio, proportion, symbol, scale factor
Algebra, function, 1 or 2 step, substitute, formulae, equation, values, systematic.
Decimal, whole, integer, round, add, subtract, multiply, divide
Fractions, decimal, percentage, equivalent, convert, calculate, order, descending, ascending, amount,

Examples of activities:

We follow an “I do” (teacher models), “we do” talk partners (talk and work together using white boards) and “you do” (independently have a go) approach to maths with concrete and pictorial representations used to support understanding. We will also play many game based learning activities throughout using IR tool (e.g. power pods, eggs on a line, fraction run).