## YEAR 7

This term your child will be looking at place value, properties of number, arithmetic procedures and expressions and equations.

Over the course of the term your child will learn:
**Place value**
- Understand the value of digits in decimals, measure and integers

**Properties of number**
- Understand multiples
- Understand integer exponents and roots
- Understand and use the unique prime factorisation of a number

**Arithmetic procedures**
- Understand and use the structures that underpin addition and subtraction strategies
- Understand and use the structures that underpin multiplication and division strategies
- Use the laws and conventions of arithmetic to calculate efficiently

**Expressions and equations**
- Understand and use the conventions and vocabulary of algebra including forming and interpreting algebraic expressions and equations
- Simplify algebraic expressions by collecting like terms to maintain equivalence

Manipulate algebraic expressions using the distributive law to maintain equivalence

## YEAR 8

This term your child will be looking at estimation and rounding, linear sequences, graphical representations and solving linear equations

Over the course of the term your child will learn to;
**Estimation and rounding**
- Round numbers to a required number of decimal places
- Round numbers to a required number of significant figures
- Estimate calculations by rounding

**Sequences**
- Understand the features of a sequence
- Recognise and describe arithmetic sequences

**Graphical representations of linear relationships**
- Connect coordinates, equations and graphs
- Explore linear relationships

**Solving linear equations**
- Understand what is meant by finding a solution to a linear equation
- Solve a linear equation with a single unknown on one side requiring one step
- Solve a linear equation with a single unknown on one side requiring two or more steps (no brackets)
- Solve efficiently a linear equation with a single unknown involving brackets

## YEAR 9

This term your child will be looking at geometrical properties and probability

Over the course of the term your child will learn to;

**Geometrical properties**
- Understand and use similarity and congruence
- Understand and use Pythagoras' theorem

**Probability**
- Explore, describe and analyse the frequency of outcomes in a range of situations
- Systematically record outcomes to find theoretical probabilities
- Calculate and use probabilities of single and combined events

**Non-linear relationships**
- Recognise and describe other types of sequences (non-arithmetic)