Year 9

1. **Number: Calculations and Rounding**
   - use BODMAS in calculations
   - add, subtract, multiply and divide with decimals of any size (with and without a calculator)
   - use a calculator to perform more difficult calculations, e.g. using the fraction button
   - round to one, two or three significant figures

2. **Algebra: Algebraic Expressions**
   - understand and use the words expression, equation, formulae, inequality, term and factor
   - use conventional notation in algebra, e.g. 3 x a is written as 3a
   - use symbols =, ≠, <, >, ≤, ≥
   - rewrite algebraic expressions by taking out common factors which are constants
   - rewrite algebraic expressions by taking out common factors which are terms
   - rewrite algebraic expressions by multiplying a single term over a bracket/expanding brackets
   - use index laws in algebra for positive powers

3. **Shape, Space and Measures: Shapes**
   - recognise 2-D representations of 3-D shapes
   - draw the net of a cube or cuboid
   - draw the front elevation, side elevation and plan view of any 3D shape
   - identify the faces, edges and vertices of any 3D shape

4. **Number: Indices**
   - use index notation and index laws for positive integer powers
   - use prime factor decomposition to write any number as a product of its prime factors
   - find the highest common factor (HCF) and least (lowest) common multiple (LCM) of any two numbers

5. **Algebra: Equations**
   - solve inequalities and represent the solution set on a number line

6. **Shape, Space and Measures: Measures**
   - understand and use compound measures to solve problems, e.g. speed, density