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|  Year 7 Learner stage | What I should know, understand, be able to explain or do in year 7 Summer Term |
| Exceptional Mastery (E) | I can convert between different units of volume: cm³, ml and litres. I can work out and use expressions for the *n*th term in an arithmetic sequence.I can calculate the surface area of a cuboid.I can solve word problems involving ratio and inverse proportion.I can simplify a ratio expressed in fractions or decimals, or in different units.I can write recurring decimals as fractions. |
| Advancing mastery (A) | I can find and calculate the midpoints of a line segment.I can write ratios in the form 1 : *n*I can work out the terms of an arithmetic sequence using the term-to-term rule.I can solve best buy problems.I can recognise geometric sequences and work out the term-to-term rule.I can draw straight-line graphs.I can share a quantity in 2 or more parts in a given ratio.I can work out the scale factor given an object and its image. |
| Secure mastery (S) | I can calculate probability of A or B happening by counting outcomes.I can develop the use of mathematical language to describe sequences.I can identify the properties of quadrilaterals.I can recognise straight-line graphs parallel to the axes.I can calculate the perimeter of shapes made from rectangles and triangles.I can calculate the volume of a cube.I can calculate the area of triangles. |
| Developing mastery (D) | I can calculate simple fractions of quantities.I can understand percentage as ‘the number of parts per 100’.I can calculate the area of squares and rectangles.I can identify nets of different 3D shapes.I can simplify fractions. |
| Foundation mastery (F) | I can reflect a shape in a mirror line.I can draw and describe rotations.I can use a probability scale with words and numbers.I can identify equivalent fractions. |