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| Learner stage | What I should know, understand, be able to explain or do |
| Exceptional Mastery (E) | I can apply Pythagoras’ Theorem in 3 dimensions.  I can apply Trigonometry in 3 dimensions.  I can recall the exact values of Sine, Cosine and Tangent for certain angles.  I can use loci to solve problems.  I can describe fully a combination of transformations.  I can enlarge a shape given a negative scale factor.  I can calculate repeated percentage change.  I can use an equation that represents a proportional relationship to solve problems involving proportion including with indices and roots. |
| Advancing mastery (A) | I can calculate the interior and exterior angles in a regular polygon.  I can use Pythagoras’ Theorem to calculate missing sides of a right-angled triangle.  I can use Trigonometry to calculate missing sides and angles of a right-angled triangle.  I can calculate the mean, median, mode and range from data given in a frequency table.  I can draw a locus.  I can describe fully a single transformation.  I can enlarge a shape given a fractional scale factor.  I can add and subtract mixed numbers.  I can multiply and divide mixed numbers.  I can use percentage multipliers to increase and decrease by a given percentage.  I can write an equation that represents a proportional relationship. |
| Secure mastery (S) | I can identify congruent shapes.  I can find missing angles in parallel lines.  I can recall Pythagoras’ Theorem.  I can calculate the mean, median mode and range from a data set.  I can draw plans and elevations of 3d solids.  I can construct triangles using a ruler and a pair of compasses.  I can bisect an angle.  I can perpendicularly bisect a line.  I can reflect a shape in a given mirror line.  I can enlarge a shape by a given a scale factor.  I can add and subtract fractions with different denominators.  I can multiply and divide fractions.  I can convert between mixed numbers and improper fractions.  I can convert between currencies.  I can calculate simple percentage increases and decreases.  I can use direct and inverse proportion. |
| Developing mastery (D) | I can solve simple equations.  I can recognise parallel and perpendicular lines.  I can solve angle problems in triangles.  I can translate 2D shapes.  I can calculate a fraction of an amount.  I can calculate simple percentages of amounts.  I can identify the difference between direct and inverse proportion. |
| Foundation mastery (F) | I know and can apply the correct order of operations.  I can correctly use a tally chart.  I can recognise acute, obtuse and reflex angles.  I can identify 2D shapes.  I can add and subtract fractions with the same denominators. |