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| Learner stage | What I should know, understand, be able to explain or do |
| Exceptional Mastery (E) | I can use prime factor decomposition to find the HCF and LCM of two numbers. I can use negative indices.I can form and solve equations.I can solve equations using powers.I can factorise quadratics.I can find the volume and surface area of a cylinder. |
| Advancing mastery (A) | I can use prime factor decomposition to write a number as a product of its prime factors.I can decipher and use the laws of positive indices.I can identify the difference the between an equation and an identity.I can change the subject of a formula.I can multiply out double brackets.I can round to a given number of significant figures.I can find the area of a trapezium.I can find the area of a compound shape.I can find the area and circumference of a circle. |
| Secure mastery (S) | I can use written methods to add and subtract decimals.I can calculate using squares, cubes and roots.I can substitute into algebraic expressions.I can find the area of 2D shapes including triangles and parallelograms.I can calculate the volume of cubes and cuboids.I can calculate the surface area of cubes and cuboids.I can solve two step equations. |
| Developing mastery (D) | I can multiply large numbers.I can add, subtract, multiply and divide negative numbers.I can use proportion to solve simple problems.I can identify square and cube numbers and their corresponding roots.I can draw a 2D net of a 3D shape.I can solve simple equations. |
| Foundation mastery (F) | I can add and subtract large numbers.I know and can apply the correct order of operations.I can find equivalent ratios.I can recognise 2d shapes and their properties.I can identify and collect like terms. |