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| Learner stage | What I should know, understand, be able to explain or do |
| Exceptional Mastery (E) | I can use negative and fractional indices.I can rationalise a denominator.I can change the subject of a complex formula.I can solve problems by finding a variable that is not the subject of a formula.I can use factorisation to make a given letter the subject of a formula.I can solve complex inequalities and represent them on a number line.I can change algebraic fractions to equivalent fractions. |
| Advancing mastery (A) | I understand the difference between rational and irrational numbers.I can simplify surds.I can calculate with numbers in standard form.I can represent inequalities on a number line.I can demonstrate what occurs to an inequality when using a negative multiplier.I can use index laws involving negative and fractional powers.I can factorise a quadratic expression where the coefficient of a is greater than 1. |
| Secure mastery (S) | I can understand surd notation on a calculator.I can write numbers in standard form.I can round to a given number of significant figures.I can estimate answers to calculations.I can use index laws involving positive powers.I can recognise 2-digit prime numbers.I can find the HCF and LCM of two numbers using prime factor decomposition.I can multiply out double brackets.I can factorise a quadratic expression. |
| Developing mastery (D) | I can round to a given number of decimal places.I can identify square and cube numbers and their corresponding roots.I can multiply and divide decimal numbers.I can identify factors and multiples of numbers.I can multiply out single brackets.I can factorise a simple expression.I can substitute into algebraic expressions. |
| Foundation mastery (F) | I know and can apply the correct order of operations.I can recognise factors of algebraic expressions.I can write and simplify expressions |