## Stage 10 Algebraic Proficiency: Basic K $Y_{W} O R$ D S



- Simplify and manipulate algebraic expressions involving algebraic fractions.
- manipulate algebraic expressions by expanding products
of more than two binomials.
- simplify and manipulate algebraic expressions (including those involving surds) by expanding products of two binomials and factorising quadratic expressions of the form
$x^{2}+b x+c$, including the difference of two squares.
- manipulate algebraic expressions by factorising quadratic expressions of the form $a x^{2}+b x+c$

Quadratic-"square, squared," related to quadrus "a square," and quattuor "four"

- Equation
- Equivalent
- Expand
- Factorise
- Formula-As a noun, c. 1600 "things that are formal"
- Linear
- Binomial
- Difference of two squares

| Success Criteria | Before Topic | After Topic | Teacher Mark |
| :--- | :--- | :--- | :--- |
| Add and subtract algebraic fractions. |  |  |  |
| Multiply and divide algebraic fractions. |  |  |  |
| Simplify an algebraic fraction. |  |  |  |
| Expand the product of three binomials. |  |  |  |
| Expand the product of two binomials involving surds. |  |  |  |
| Factorise an expression involving the difference of two squares. |  |  |  |
| Factorise a quadratic expression where a>1. |  |  |  |
| Simplify an algebraic fraction where factorisation is needed. |  |  |  |
| Change the subject of an advanced formula. |  |  |  |

