

HIGHER GCSE UNIT SUMMARY: UNIT 17: Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof

17) Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof

Unit Description	Taught	Revision Priority
Rationalise the denominator involving surds;		
Simplify algebraic fractions;		
Multiply and divide algebraic fractions;		
Solve quadratic equations arising from algebraic fraction equations;		
Change the subject of a formula, including cases where the subject occurs on both sides of the formula, or where a power of the subject appears;		
Change the subject of a formula such as $\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$, where all variables are in the denominators;		
Solve 'Show that' and proof questions using consecutive integers ($n, n + 1$), squares a^2, b^2 , even numbers $2n$, odd numbers $2n + 1$;		
Use function notation;		
Find $f(x) + g(x)$ and $f(x) - g(x)$, $2f(x)$, $f(3x)$ etc algebraically;		
Find the inverse of a linear function;		
Know that $f^{-1}(x)$ refers to the inverse function;		
For two functions $f(x)$ and $g(x)$, find $gf(x)$.		