Algebraic Skills	
Торіс	Description
Algebraic Expressions involving	Collect like terms
expansion of brackets	Use distributive law
	 Multiplying pairs of (or three) brackets
	 Multiplying a binomial and trinomial expression
Factorising Algebraic Expressions	 Factorise by finding a common factor
	 Factorise using a difference of 2 squares
	Factorise a trinomial expression
Completing the Square in a	 Complete the square to write a trinomial in the form (x +a)² + b
quadratic expression with a unitary	
X ⁻ Leffin Reducing an algebraic fraction to its	a Using factorizing to simplify an algobraic fraction involving
simplest form	Osing factorising to simplify an algebraic fraction involving multiplication
Simplest form	• Simplify complex algebraic fractions involving multiplication
	• Simplify complex algebraic fractions using a pogative common
	• Simpley complex algebraic mactions using a negative common factor
Applying one of the four operations	Adding and subtracting algebraic fractions with one or more
to algebraic fractions	terms on the numerator or denominator
	• Multiplying and dividing algebraic fractions with one or more
	terms on the numerator or denominator
Determine the equation of a	• Use $y = mx + c$, $y - b = m(x - a)$ or equivalent to find the equation
straight line	of a straight line given 2 points or one point and the gradient
	Use and apply functional notation
	• Identify the gradient and y- intercept from various forms of the
	straight line
Working with linear equations and	 Solve linear equations using brackets
inequalities	 Solve linear equations using fractions
	Solve complex inequalities
Working with simultaneous	 Solve equations graphically
equations	 Solve equations algebraically
	Create from text and solve
Changing the subject of the	• Change the subject of a simple linear formula using brackets or
formula	fractions
	Change the subject of a formula containing a simple square or
Pocognico and dotormino the	square root.
equation of a quadratic function	• Recognise and determine equation of the form $y = kx$ • Recognise and determine equation of the form $y = (y + z)^2 + b$
from its graph	• Recognise and determine equation of the form $y = (x + a) + b$
Sketching a guadratic function	• Sketch the graph of a quadratic function in factorised form
0.1	• Sketch the graph a quadratic function in the form $y = (x + a)^2 + b$
Identifying features of a quadratic	 Identify the nature and coordinates of the turning point
function in the form $y = (x + a)^2 + b$	 Identify the equation of the axis of symmetry
Solving a quadratic equation	Solving from factorised form
	• Solving after factorising
	 Solving graphically
Solving a quadratic equation using	Solve using the quadratic formula
the quadratic formula	
Using the discriminant to	Know and use the discriminant
determine the number and nature	 Determine the number and clearly describe the nature of roots
of roots	using the language "two real and distinct roots"; "two real and
	equal roots"; "one real repeated root"; "no real roots"