



# Longfield Learning Journey



<b>Key Stage 4 HIGHER</b>	<b>Unit of work: Calculations 2</b>	
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<b>Key Words:</b>	<b>Prerequisites Green core – Blue extend</b>	<b>R</b>	<b>A</b>	<b>G</b>
Surds, rationalise, standard form, integer, difference of two squares, roots, indices.	Simplify expressions involving powers and square roots.			
	Factorise whole numbers and recognize primes.			
	Write multiplications in power form and evaluate expressions involving indices.			

	<b>Content: Calculations 2</b>	<b>R</b>	<b>A</b>	<b>G</b>
N7	Calculate with roots, and with integer and fractional indices.			
N8	Calculate exactly with fractions, surds and multiples of $\pi$ .			
N8	Simplify surd expressions involving squares.			
N8	Simplify simple surd expressions by rationalising the denominator			
N8	Simplify simple surd expressions by rationalising the denominator (including the difference of two squares)			
N9	Calculate with and interpret standard form $A \times 10^n$ where $1 \leq A < 10$ and $n$ is an integer.			

<b>K</b> <i>What you know</i>	<b>W</b> <i>What you want to know</i>	<b>L</b> <i>What have you learned</i>