

YEAR 11 — FUNCTIONS

By the end of this unit you should be able to:	MathsWatch clip	Video tutorial
• Use function machines		Corbett
• Substitute into expressions & formulae	95	
• Use function notation		
• Work with composite functions (H)	215	Corbett
• Work with inverse functions (H)	214a 214b	Corbett
• Use graphs of quadratic functions	160	
• Solve quadratic inequalities (H)	212	Corbett
• Understand & use trigonometric functions	168 173	

$$f(x) = 2x^2 + x - 1$$

$$f(3) = 2(3)^2 + (3) - 1$$

Keywords

Function: an algebraic rule which shows how to calculate the output for a given input

Inverse function: reverses the effect of the original function

Variable: a letter which can take on different values in an algebraic expression

Evaluate: find the value of an expression when the variable is replaced by a given number

Composite function: takes the output of one function and uses it as the input of another function

Rearrange: change the subject of an equation by writing it in a different way

Intercept: where a line or curve crosses an axis on a graph