Algebraic Manipulation and Proof				Iteration and Functions			Gradients and Rates of Change		
1	Binomial	A polynomial with two	1	Iteration	Doing the same thing over and over again				
		terms	2	Change of	Make the equation equal zero	1	Y = mx + c	M is the gradient, c is the y	
2	Quadratic	A polynomial with a squared term		sign method	and then substitute both values in. Show that there is a change in sign.			intercept	
3	Expand	Multiply out brackets	3	Recurrenc e relation	A sequence where each term is calculated from the previous term	2	Gradient formula Parallel lines	Gradient = $\frac{y_2 - y_1}{x_2 - x_1}$ Have the same gradient	
4	Factorise	Put brackets back in by							
5	Changing	finding common factors Rearranging a formula,	4	Evaluate	Substitute the value into the expression for f(x)	3	Falallel lilles	have the same gradient	
	the subject	using balancing, to make another variable the	5	Solve	Put f(x) equal to the value and solve the equation	4	Perpendicular	Gradients multiply to give -1	
		subject	6	Domain	All the values of x to which the function is applied		lines		
6	Proof	Logical mathematical arguments used to show the truth of a statement	7	Range	All values of f(x)	5	Distance time graph	Plots the distance an object travels against the time it takes it to travel	
7	Verify	The process of making sure a solution is correct	8	Composite function	Combining two functions to make fg(x)	6	Speed	Distance ÷ time	
8	Even number	Of the form 2n	9	Fg(x)	Means f(g(x)) I.e. apply g first followed by f	7	Velocity time graph	Plots the velocity of an object against the time it takes it to	
			10	F ⁻¹ (x)	The inverse function			travel	
9	Odd number	Of the form 2n + 1	Loci and Construction				Velocity	Rate of travel of an object, along with its direction	
10	Consecutive numbers	Written in the form n, n+1, n+2	1	Locus	Set of points with a common property		Acceleration		
10	Sum	Add	2	Equidistant	The same distance	9	Acceleration	Gradient of a velocity time graph or change in velocity ÷	
11	Product	Multiply	3	Bisector	A line that divides something into			change in time	
12	Difference	Subtract	5		two equal parts	10	Distance travelled	Area under the curve of a velocity time graph	
			4	Arc	Part of a curve			, , ,	
			5	Perpendicular	Lines that meet at 90 degrees				