

GCSE UNIT SUMMARY: UNIT 16: Algebra: quadratic equations and graphs**16a) Quadratic equations: expanding and factorising**

Unit Description	Taught	Revision Priority
Define a 'quadratic' expression;		
Multiply together two algebraic expressions with brackets;		
Square a linear expression, e.g. $(x + 1)^2$;		
Factorise quadratic expressions of the form $x^2 + bx + c$;		
Factorise a quadratic expression $x^2 - a^2$ using the difference of two squares;		
Solve quadratic equations by factorising;		
Find the roots of a quadratic function algebraically.		

16b) Quadratic equations: graphs

Unit Description	Taught	Revision Priority
Generate points and plot graphs of simple quadratic functions, then more general quadratic functions;		
Identify the line of symmetry of a quadratic graph;		
Find approximate solutions to quadratic equations using a graph;		
Interpret graphs of quadratic functions from real-life problems;		
Identify and interpret roots, intercepts and turning points of quadratic graphs.		