

## Quadratics:

Objective	Sparx Task	
Define a 'quadratic' expression;		
Multiply together two algebraic expressions with brackets	U768	
Factorise quadratic expressions of the form $x^2 + bx + c$ ;	U178	
Factorise a quadratic expression $x^2 - a^2$ using the difference of two squares;	U963	
Solve quadratic equations by factorising;	U228	
Generate points and plot graphs of simple quadratic functions,	U989	
Identify the line of symmetry of a quadratic graph;		
Find approximate solutions to quadratic equations using a graph;	U601	
Interpret graphs of quadratic functions from real-life problems;	U667	
Identify and interpret roots, intercepts and turning points of quadratic graphs.		

## Transformations:

Objective	Sparx Task	
Draw and describe translations along a given vector	U196	
Reflect a shape along a vertical/ horizontal/ diagonal mirror line	U799	
Describe reflections and identify the equation of a line of symmetry		
Draw and describe a rotation of a shape on a grid. Rotate about the origin and any other coordinate.	U696	
Identify the correct transformation from a choice of diagrams		
Enlarge a shape on a grid with no specified centre	U519	

Understand enlargements from a specified centre with a given scale factor (positive integer and fractional)		
Find a centre of enlargement and identify a scale factor from two enlargements		
Perform combinations of the above transformations and understand properties of shapes that are preserved.	U766	

