Algebra, Indices and Sequences:

Objective	Sparx Task	
Recognise arithmetic and quadratic sequences, continue sequences and find terms using nth term rule	M381, M866, M991	
Find the nth term rule of a quadratic sequence	M418	
Recognise properties of sequences based on triangle numbers and Fibonacci	M981	
Expand brackets of the type 5(x+2) +2x and x3(3x-2)-2(x+3)	M792	
Expand double brackets e.g. (x+5)(x+3)	M960	
Expand double brackets in context e.g. areas of shapes	M957	
Find the square of a single bracket e.g. $(x-3)^2$ and $(x+3)^2$	M960	
Factorise quadratic expressions using sum product	U858	
Factorise quadratic expressions using difference of two squares	U963	
Recognise when an equation can be factorised using either single or double brackets	M908	
Solve a quadratic equation by factorising	U228, U960	
Represent inequalities on a number line	M384	
Solve single linear inequalities and represent solutions on a number line	M118	
Solve double sided linear inequalities and represent solutions on a number line	M732	
Use index law to write algebraic expressions as negatives powers and as fractions	U235, U694	
Recognise a formula, equation and a function. Solve linear equations with fractions on both sides	M830	
Form solve equations from pictures	U599	
Change the subject in simple formulae e.g. y=mx+c	U556	

Write formulae from words and rearrange	U599	
Change algebraic fractions to equivalent fractions	U103	
Make x the subject in a formula e.g. x^-1=9-y	U556	

Accuracy and Measures:

Objective	Sparx Task	
Find average speed from a distance time graph	U462	
Find average speed given in different measures	U151	
Use average speed to find distance and time taken	U462	
Convert compound units		
Convert metric units of volume and area	M772, M530, M761	
Understand density	U910	
Understand pressure	U527	
Calculations with density and pressure	U910, U527	