

## **Bounds and SURDs and Multiplicative Reasoning**

Objective	Sparx Task	
Use inequality notation to specify error intervals due to rounding	U657	
Find upper and lower bounds in complex problems	U587	
Expand double brackets with surds	U499	
Simplify surds	U338	
Rationalise the denominator of a surd	U707	
1.Apply repeat proportional change	D337	
2.Solve problems by forming equations from given ratios/relationships	D198	
3.Recall the formula for speed and use this to solve problems including multi-stage journeys	U151	
4.Recall the formula for density and use this to solve problems, including working with volumes of solids.	U910	
5.Recall the formula for pressure and use this to solve simple problems.	U527	
6.Convert between compound measures.	U842	
7.Apply kinematics formulae		
8.Set up and solve equations where two variables are directly proportional.	D222	
9.Set up and solve equations where two variables are inversely proportional	D967	

## **Angles, Polygons, Pythagoras and Trigonometry**

Objective	Sparx Task	
1.Apply simple angle rules including angles sums in triangles and quadrilaterals	U390 U628 U730	
2.Apply parallel line angle rules	U826	
3.Classify triangles and quadrilaterals and understand geometric properties	U732 U329 U655	
4.Name polygons and solve problems involving interior and exterior angles	U427	

5.Understand and apply Pythagoras' theorem in 2D	U385	
6.Use Trigonometry to find missing lengths and angles	U283 U545	
7.Solve problems including multi-step questions using Pythagoras and Trigonometry		
8.Know exact Trig angles for 0,30,45,60,90 (excluding tan90) and apply to problems	U627	
9. Understand proof of angles rules		
10. Use angle properties of shapes to solve problems involving algebra		
11. Find angles of elevation and depression	U967	