Year 9 Objective List – Higher   HT5 – 2022-23

Angles:

Objective	Sparx Task	
Construct quadrilaterals on squared paper to discover properties	M393	
Find missing vertex on a coordinate grid for any quadrilateral	U889	
Recap missing angles in triangles with focus on reasoning	M351	
Use corresponding, alternate and co-interior angles to find missing angles on parallel lines	M606	
Solve complex problems using corresponding, alternate and co-interior angles	M606	
Interior angles of regular and irregular polygons	M653	
Exterior angles of regular and irregular polygons	M653	
Investigation enlarging right angles and finding ratio of sides	U605	
Use the tangent ratio to work out an unknown side in a right-angle triangle	U283	
Use the sine ratio to work out an unknown side in a right-angle triangle	U283	
Use the cosine ratio to work out unknown sides in a right-angle triangle	U283	
Use the trig ratios to find missing angles	U545	
Use trigonometry to solve problems	U283, U545	
Plot and sketch trig graphs	U450	
Investigation into Pythagoras' theorem	M677	

Find missing sides using Pythagoras' theorem	M677	
Decide whether a problem can be solved using trig or Pythagoras	M677	
Construct and measure bearings	U525	
Calculate the bearing of B to A when given the bearing of A to B	U107	