Year 9 Objective List – Higher HT5

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	