

Scheme of Learning: Year 11 Foundation Autumn Term

Topic Sequence: Geometry and Measure

1	2
Pythagoras and Trigonometry recap	3D shapes, plans and elevations

Topic Overview: Pythagoras and Trigonometry recap

Students revisit Pythagoras and Trigonometry

Learning Sequence:

Pythagoras

Students revisit year 9 work on Pythagoras theorem

Trigonometry intro

Explore ratio in similar right-angled triangles

Hypotenuse, Opposite and Adjacent

Students recap naming sides of right angled triangles

Finding a missing side length

Students apply the tan, sin and cosine ratio to find a missing side length of triangles

Finding a missing angle

Students apply the ratio to find a missing angle

Right angled triangle problems

Students make decisions whether to use trigonometric ratio or Pythagoras' Theorem to solve problems

Exact trig values

Students focus on finding the exact trigonometric values of 0, 30, 45, 60 and 90 degrees

Sequence of Learning:		Topic Resources:	
1	Pythagoras	Knowledge Map:	Trigonometry and Pythagoras
2	Trigonometry intro	Assessment:	
3	Hypotenuse, Opposite and Adjacent	Knowledge:	End of Topic test
4	Finding a missing side length	Application of Knowledge:	Termly summative assessment
5	Finding a missing angle	Supportive Reading:	
6	Right angled triangle problems	Any supported reading listed here	Sparx Maths www.sparxmaths.co.uk
7	Exact trig values		Corbett Maths : www.corbettmaths.com
			AQA Revision Guide