Year 9 Term 2

Learning Aim	Developing	Securing	Mastering
Pythagoras & Trigonometry		Apply formula for both Pythagoras and trigonometric ratios to find missing edges in right angled triangles Apply trigonometric ratios to find missing angles	Problem solve eg. Pythag needed to find area in a multi-step question
Examples		x = 20 15 x $x = 0$	4cm Find the surface area of the prism
Angles	Apply properties of angles in triangles, quadrilaterals and parallel lines	Derive sum of angles in a triangle to problem solve irregular polygons. Use the formula triangle for regular polygons. Apply angle properties to multistep questions	Apply angle facts in congruence and similarity for simple proofs Intro to circle theorems
	x 53°		
Number Measure	Convert between standard form & ordinary nos Convert between metric units (one step) Work in 24 hour clock	Multiply and divide in standard form Convert between metric units (two step) Journey planning, timetables	Four operations and application of standard form Use compound units in D/S/T questions
	Change 243700000 in to standard form Write 3.4m in cms Add 2 hours and 43 minutes to 11:38	Work out (2.3 x 10^3) x (6 x 10^7) Write 0.42m in mm	Philip runs at an average speed of 4 m/s. How long will it take Philip to complete a 10 kilometre race? Give your answer in minutes and seconds.

Extension opportunities Trig in unusual places Combined Pythag & Trig questions Worded Standard form problems

You can find practice on all the topics taught this term at Mathsworkout.co.uk. Login: sarum. Password: solid92

Go to Geometry; section 01, 07,08,19,20 & 21 Number; section 22 Choosing the right level of difficulty for you within each topic area.