



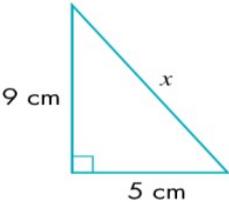
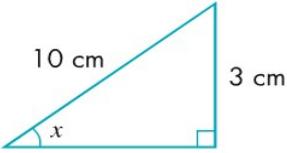
Lode Heath School

Mathematics Department

**Year 10 Higher
Summer Term**

Assignment Title	Unit 6: More trigonometry	Set	Summer
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Summary of Unit 6	Key Words
Use and understand the trigonometric graphs. Use the sine and cosine functions to solve problems. Use the sine rule to find the area of triangles.	Axes, coordinates, sine, cosine, tan, angle, graph, transformations, side, angle, inverse, square root, 2D, 3D, diagonal, plane, cuboid.

Prior Knowledge:	
1) Find the missing side	2) Find the missing angle
	
3) A ladder is placed so that it makes an angle of 76° with the ground. The foot of the ladder is 1.7m from the foot of the wall. How high up the wall does the ladder reach?	

LEARNING JOURNEY

Level	Task Description
6-8	6.1 Accuracy Understand and use upper and lower bounds in calculations involving trigonometry.
6-8	6.2 Graph of the sine function Understand how to find the sine of any angle. Know the graph of the sine function and use it to solve equations.
6-8	6.3 Graph of the cosine function Understand how to find the cosine of any angle. Know the graph of the cosine function and use it to solve equations.
6-8	6.4 The tangent function Understand how to find the tangent of any angle. Know the graph of the tangent function and use it to solve equations.
6-8	6.5 Calculating areas and the sine rule Find the area of a triangle and a segment of a circle. Use the sine rule to solve 2D problems.
6-8	6.6 The cosine rule and 2D trigonometric problems Use the cosine rule to solve 2D problems. Solve bearings problems using trigonometry.
8-9	6.7 Solving problems in 3D Use Pythagoras' theorem in 3D. Use trigonometry in 3D.
7-8	6.8 Transforming trigonometric graphs 1 Recognise how changes in a function affect trigonometric graphs.

