



The big picture:

Trigonometry



Today we're learning to...

Finding standard trigonometric ratios *without a calculator.*



In today's lesson I will...

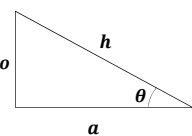
Know the ratios of Sine, Tangent and Cosine.

Derive the trigonometric ratios from two triangles.

Use the knowledge of standard trigonometric ratios to find lengths of sides.

Sin/Cos/Tan

Sine, cosine and tangent are functions which take an angle and give us the **ratio** between pairs of sides in a right angle triangle.



$\sin(\theta) = ?$

$\cos(\theta) = ?$

$\tan(\theta) = ?$

Some Officers Have

Curly Auburn Hair

'Til Old Age

"soh cah toa"

Know the ratios of Sine, Tangent and Cosine.

Angle	Sine	Cosine	Tangent
0°	0	1	0
30°			
45°			
60°			
90°	1	0	This value does not exist.

Derive the trigonometric ratios from two triangles.
