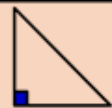# Trigonometry

What is it?	Deals with the relationship between angles and side lengths of
Why would I use it?	To solve problems involving angles and distances.

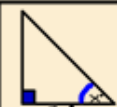| When would I use it?	astronomy	creating maps	architecture	carpentry	engineering	something else

⭐ Important information.

- The hypotenuse is the longest side of the triangle. It is opposite the right angle.
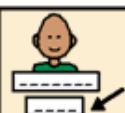
- The opposite is the side opposite the angle being solved.
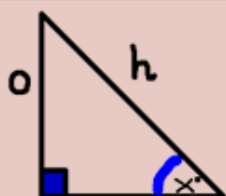
- The adjacent is next to the angle being solved.

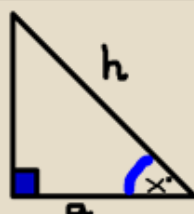- Sine, Cosine and Tangent are what is used to describe the trigonometry functions.
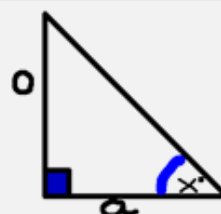
- They are shortened to: sin   cos   tan

Trigonometry Ratios

$\sin x =$ $\dfrac{\text{opposite}}{\text{hypotenuse}}$	$\cos x =$ $\dfrac{\text{adjacent}}{\text{hypotenuse}}$	$\tan x =$ $\dfrac{\text{opposite}}{\text{adjacent}}$

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