MCT 4CI **Learning Goals Unit 2 – Technical Trigonometry**

- **work with problems involving angles in standard position**
- **solve several types of trig equations**
- **use the unit circle to work with special angles**
- **use the sine and cosine laws and recognize the ambiguous case of the sine law**
- **be able to do several types of applications including vector applications**

Knowledge & Skills	I have reviewed it	I have done questions	I think I've got this
Angles In Standard Position			
Sketching Angles In Standard position			
Related Acute Angle			
(i) Determine Primary Ratios given co-ordinates			
(ii) Determine Ratios given sine, cosine, or tangent ratio			
Determine the angle for (i) and (ii)			
Solving Trig Equations			
Simple Ex. $\cos\theta = -0.566$			
Quadratic Ex. $3\sin^2\theta - 5\sin\theta - 2 = 0$			
Unit Circle			
Memorize the arms of the unit circle in quadrant I			
Use the unit circle to determine the primary ratios of any special angle			
Use the unit circle to solve trig equations involving special angles			
Sine and Cosine Laws			
Use the sine law to find sides and angles			
Use the cosine law to find sides and angles			
Recognize and solve the triangle involving the direct ambiguous case			
Be aware of two indirect ambiguous case examples and what to do			
Vectors			
Find the resultant of hiking questions			
Find the resultant of force questions			
Find the resultant using components			