Trigonometry Unit 1

Day 1: Trig Review and Intro to special Triangles

* Review from sec II
* I can use the special triangles to evaluate sin, cos and tan of 30, 45, 60 degree angles

Day 2: Angles, angle measure

* I can use reference angles along with the special triangles to evaluate sin cos and tan of multiples of 30, 45, 60
* I can graph an angle in standard position
* I can find positive and negative co-terminal angles.
* I can find the location of the terminal side of an angle given the value of 2 trig functions of that angle.

Day 3: Intro to unit circle

* I can use the special triangles to locate points around the unit circle
* I can convert a degree measure to a radian measure (visa versa)
* I can explain that the radian measure corresponds to the length of an arc around the unit circle
* I can use the unit circle to evaluate sin, cos and tan of special angles in any quadrant.

Day 4: Model periodic phenomena

* I can describe the amplitude, frequency (period) and midline of a periodic function given as a graph or an equation
* I can graph a sin or cos graph
* I can model periodic phenomena using a sin or cos function.

Trigonometry Unit 2

Day 1: Height and area of triangles

* I can find the height of any triangle when given SAS
* I can find the area of any triangle SAS

 Day 2: Law of Sines

* I can find a missing side of any triangle using law of sines
* I can find a missing angle of any triangle using law of sines
* I can determine when law of sines produces 0, 1 or 2 possible triangles

Day 3: Law of Cosines

* I can find a missing side using law of cosines
* I can find a missing angle using law of cosines
* I can describe when it is appropriate to use law of sines vs. law of cosines