Math 3 Unit 7 Calendar - Trigonometry

Essential Question(s):
1. Why is trigonometry important and who is it important to?
2. What are trigonometric functions similar to and different from that we have studied before?
3. Who in the world uses the unit circle?

NAME _____

Day	Date	Topic	State Standards	I Can…	HW
W	9-May	Pythagorean Theorem and Trig Ratios	NC.M3.F-IF.1	-recall 6 trig ratios and use them to find missing side lengths or angle measures	Day 1 HW Pre-Requisite Quiz due Wednesday by midnight
R	10-May	Pythagorean Applications (MVP 6.1 Lesson)	NC.M3.F-IF.4	-apply my knowledge of trig ratios to real-world situations that create right triangles	Day 2 HW
F	11-May	Reference Angles Special Right Triangles	NC.M3.F-TF.1	-define a radian measure of an angle as the length of the arc on the unit circle subtended by the angle.	Day 3 HW
M	14-May	Unit Circle		-work with angles in standard position to find coterminal and reference angles.	Day 4 HW
T	15-May	Practice with the Unit Circle		-explain how a ratio represents a value of a trig function for an angle.	Day 5 HW
W	16-May	Graphing Sine Functions	NC.M3.F-BF.3	-use technology to interpret the key features of sine graphs in a real world situation.	Day 6 HW **Pre-Requisite Quiz DUE**
R	17-May	Quiz Transforming Sine Graphs	NC.M3.F-TF.5	-describe the effect of a transformation on the graph of a sine function.	Day 7 HW
F	18-May	Graphing Cosine Functions	NC.M3.F-TF.2	-use technology, graphs, and tables to compare sine graphs.	Day 8 HW
M	21-May	Sine and Cosine Applications	NC.M3.F-IF.7 NC.M3.F-IF.9	-use key features to construct the graph of sine and cosine functions and interpret in context.	Day 9 HW
T	22-May	Review			STUDY!
W	23-May	Unit 7 Test			