Course Title: Trigonometry Honors (edits) Course Number: 1211300			
NGSSS Benchmark	**Content Focus**	**Number of Questions**	**Suggested Cognitive Complexity** *(per CPALMS)*
***Reporting Category 1:* Using the Unit Circle**			
MAFS.912.F-TF.1.1	Convert between degrees and radians	1	1 Level 1
MAFS.912.F-TF.1.3	Use special right triangles and the unit circle to evaluate trigonometric expressions	4	4 Level 2
Reporting Category Total		*5*	
***Reporting Category 2:* Trigonometric Functions**			
MAFS.912.G-SRT.3.7	Use the relationship between the sine and cosine of complementary angles	1	1 Level 1
MAFS.912.G-SRT.3.8	Use trigonometric ratios and the Pythagorean theorem to solve right triangles	4	1 Level 1 3 Level 2
MAFS.912.F-TF.2.5	Use trigonometric functions to model periodic phenomena using amplitude, frequency, and midline	4	1 Level 1 2 Level 2 1 Level 3
MAFS.912.F-TF.2.7	Use inverse functions to solve trigonometric equations, including in modeling contexts	4	4 Level 2
MAFS.912.F-TF.3.9	Use the addition, subtraction, half-angle, and double angle formulas to solve problems	3	2 Level 2 1 Level 3
Reporting Category Total		*16*	
***Reporting Category 4:* Trigonometry in General Triangles**			
MAFS.912.G-SRT.4.9	Find the area of a triangles using A = 1/2ab sin (C)	2	2 Level 2
MAFS.912.G-SRT.4.10	Use the Law of Sines and Cosines to solve problems	3	3 Level 2 ~~1 Level 3~~
Reporting Category Total		*5*	
***Reporting Category 3:* Operations and Applications with Vectors**			
MAFS.912.N-VM.1.1	Calculate the magnitude and direction of a vector	2	2 Level 1
MAFS.912.N-VM.1.2	Write a vector in component form by subtracting the terminal and initial points	1	1 Level 1
~~MAFS.912.N-VM.1.3~~	~~Solve problems involving velocity and other quantities that can be represented by vectors~~	~~3~~	~~2 Level 2~~ ~~1 Level 3~~
MAFS.912.N-VM.2.4	Operations with vectors	4	4 Level 1 ~~2 Level 2~~
MAFS.912.N-VM.2.5	Multiplying a vector by a scalar	1	1 Level 1
Reporting Category Total		*8*	
***Reporting Category 4:* Operations with Complex Numbers**			
MAFS.912.N-CN.2.5	Operations with Complex Numbers	3	3 Level 2
Reporting Category Total		*3*	

Overall Percentage for Written Test:____100%_____
Overall Percentage for Performance Tasks:___0%_____