Pre-Calc/ Col. Prep. Math Lesson Plans Week 9

Teacher: Ngoma Botumile A **Subject:** Pre Calc. & Col. Prep. Math

Week of: 10/17-10/21/2016 **Grade:** 11 & 12

Day/Date: Tuesday,10/18/ 2016

Unit 4: Trigonometric Identities Students analyze and transform trigonometric functions and identities.
Unit 5: Trigonometric Equations
Students analyze and solve trigonometric equations.
Unit 6: Applications of Trigonometric Functions
Students apply and analyze trigonometric functions to solve real-world problems.

Today's Objective: Review Week: Students will take a test on the graphs of the six trigonometric functions.

D. E. A. R: 7:40am -8:00am
1) As required school wide, points will be lost for lack of participation. See your D.E.A.R. download for this week.
2) No points for tardy students during D.E.A.R.

Warm-up: From warm-up table download
Agenda:
1. Warm-up Solution
2. Check downloads week 9
3. Start test.
4. UH Contest Practice Saturday tutorials 9:30am to 12:30 pm

Homework: HOW#9 and POW #9. Due Friday @ 11:59pm.

Evaluation/Exit Ticket: 5-Minutes Summary of what you have learned today. (1-minutes discussion and 4-minutes writing at level-0 voices) Make sure to include essential understanding/ Guiding questions in your summaries.

TEKS:
Process Standards, PC.1A, PC.1B, PC.1C, PC.1D, PC.1E, PC.1F, PC.1G, PC.4F, PC.2P, PC.2"O", PC.5N, PC.5M. (List of TEKS details is posted above the board.)

ELPS: : C.3D, C.3H, C.3E, C.5G, C.1E, & C.2H (ELPS detail descriptions are posted in Class)

Vocabulary:
Test

Essential Understanding/Guiding Questions:
1. test

Day/Date: Thursday: 10/20/2016

Unit 4: Trigonometric Identities Students analyze and transform trigonometric functions and identities.
Unit 5: Trigonometric Equations
Students analyze and solve trigonometric equations.
Unit 6: Applications of Trigonometric Functions
Students apply and analyze trigonometric functions to solve real-world problems.

Today's Objective: Review Week: Students will analyze the six trigonometric functions and proof fundamental trigonometric identities, On page 437 to 439 summary

D. E. A. R: 7:40am -8:00am
1) As required school wide, points will be lost for lack of participation. See your D.E.A.R. download for this week.
2) No points for tardy students during D.E.A.R.

Warm-up: From warm-up table download

Agenda:
1. Warm-up Solution
2. Compare graphs of sin, csc, cos, sec, tan, & cot.
3. Copy notes from download Page 437 to 439 on summary of trig graphs.
4. UH Contest Practice Saturday tutorials 9:30am to 12:30 pm

Homework: HOW#9 and POW #9. Due Friday @ 11:59pm.

Evaluation/Exit Ticket: 5-Minutes Summary of what you have learned today. (1-minutes discussion and 4-minutes writing at level-0 voices) Make sure to include essential understanding/ Guiding questions in your summaries.

TEKS:
Process Standards, PC.1A, PC.1B, PC.1C, PC.1D, PC.1E, PC.1F, PC.1G, PC.4F, PC.2P, PC.2"O", PC.5N, PC.5M. (List of TEKS details is posted above the board.)

ELPS: : C.3D, C.3H, C.3E, C.5G, C.1E, & C.2H (ELPS detail descriptions are posted in Class)

Vocabulary:
Periodic function pp391
Reciprocal identity pp393
Quotient identities pp 393
Pythagorean identities pp 394
Even function
Odd function.

Essential Understanding/Guiding Questions:
1. What are periodic functions?
2. How would you explain a periodic function graphs?

Day/Date: Friday, 10/21/2016

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Students apply and analyze trigonometric functions to solve real-world problems.

Today's Objective: Review Week: Students will take a test on the graphs of the six trigonometric functions.

D. E. A. R: 7:40am -8:00am
1) As required school wide, points will be lost for lack of participation. See your D.E.A.R. download for this week.
2) No points for tardy students during D.E.A.R.

Warm-up: From warm-up table download

Agenda:
1. Warm-up Solution
2. Start your group test page 127 transformations
3. UH Contest Practice Saturday tutorials 9:30am to 12:30 pm

Homework: HOW#9 and POW #9. Due Friday @ 11:59pm.

Evaluation/Exit Ticket: 5-Minutes Summary of what you have learned today. (1-minutes discussion and 4-minutes writing at level-0 voices) Make sure to include essential understanding/ Guiding questions in your summaries.

TEKS:
Process Standards, PC.1A, PC.1B, PC.1C, PC.1D, PC.1E, PC.1F, PC.1G, PC.4F, PC.2P, PC.2"O", PC.5N, PC.5M. (List of TEKS details is posted above the board.)

ELPS: : C.3D, C.3H, C.3E, C.5G, C.1E, & C.2H (ELPS detail descriptions are posted in Class)

Vocabulary:
Test

Essential Understanding/Guiding Questions:
Group Test

TEKS

PC.5M Use trigonometric identities such as reciprocal, quotient, Pythagorean, co-functions, even/odd, and sum and difference identities for cosine and sine to simplify trigonometric expressions.

PC.5N Generate and solve trigonometric equations in mathematical and real-world problems.

PC.2O Develop and use a sinusoidal function that models a situation in mathematical and real-world problems.

PC.2P Determine the values of the trigonometric functions at the special angles and relate them in mathematical and real-world problems.

PC.4E Determine the value of trigonometric ratios of angles and solve problems involving trigonometric ratios in mathematical and real-world problems.

PC.4F Use trigonometry in mathematical and real-world problems, including directional bearing.

PC.4G Use the law of sines in mathematical and real-world problems.

PC.4H Use the law of cosines in mathematical and real-world problems.