

Jane Long Academy Lesson Plan Template with Unpacking the Standards

2015-2016

Teachers: Ngoma B A: Pre-Calc Fall 2015	Lesson Plan Week of: October 19 th (Week 9)
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		Monday-19 th & Tuesday- 20 th .	Wednesday- 21 st & Thursday-22 nd .	Friday- 23 rd .
Pre-Planning: Unpacking the Standards	TEKS: (R) - Readiness Standard	PC.3E, PC.4A, PC.2I, PC.2"O", PC. 2F and PC.2H, PC.2E	PC.3E, PC.4A, PC.2I, PC.2"O", PC. 2F and PC.2H, PC.2E	No Quiz but Independent studies day chapter 4, Logs and Exponents. Turn in Project electronically @ 11:59 pm.
	Verb(s) - What verbs define the actions students will need to take when mastering this objective?	Justify, Explain, Solve, create examples, present, elaborate, apply to real life and manipulate scenarios.	Justify, Explain, Solve, create examples, present, elaborate, apply to real life and manipulate scenarios.	No Quiz but Independent studies day chapter 4, Logs and Exponents. Turn in Project electronically @ 11:59 pm.
	Concept -What am I teaching? -What do the students need to know?	-See objectives -Students take notes and collaborate.	-See objectives -Students take notes and collaborate.	No Quiz but Independent studies day chapter 4, Logs and Exponents. Turn in Project electronically @ 11:59 pm.
	Context Readiness: - Connections from previous grade level. - To what degree will this impact learning two years down the road?	-Six Weeks Review -Algebraic computations -The skills are critical for understanding and developing trigonometric identities.	-Six Weeks Review -Algebraic computations -The skills are critical for understanding and developing trigonometric identities.	No Quiz but Independent studies day chapter 4, Logs and Exponents. Turn in Project electronically @ 11:59 pm.
	I will know my students have mastered this standard when they can....	I will know my students understand the unit circle, trigonometric graphs and trigonometric properties when they will pass the weekly Quiz at least with an 80%.	I will know my students understand the unit circle, trigonometric graphs and trigonometric properties when they will pass the weekly Quiz at least with an 80%.	No Quiz but Independent studies day chapter 4, Logs and Exponents.
	I will assess the standard by.....	Weekly Quizzes, test, Projects, POWs & HOWs	Weekly Quizzes, test, Projects, POWs & HOWs	No Quiz but Independent studies day chapter 4, Logs and Exponents.

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Vocabulary (Academic and Content)	Trigonometric identity, Period, Amplitude, odd and even functions	Trigonometric identity, Period, Amplitude, odd and even functions	Logs, exponent, Euler number	
	Lesson Topic (Content Objective)	<p>-</p> <p>Unit 4: Inverse of the Trigonometric Functions Students graphically, tabularly, and algebraically analyze the inverse of the trigonometric functions. -Students will graph trigonometric functions and read their properties.</p> <p>Unit 5: Trigonometric Identities Students analyze and transform trigonometric functions and identities</p>	<p>-</p> <p>Unit 4: Inverse of the Trigonometric Functions Students graphically, tabularly, and algebraically analyze the inverse of the trigonometric functions. -Students will graph trigonometric functions and read their properties.</p> <p>Unit 5: Trigonometric Identities Students analyze and transform trigonometric functions and identities</p>	No Quiz but Independent studies day chapter 4, Logs and Exponents. Turn in Project electronically @ 11:59 pm.
	ELPS (Language Objective)	c1C, c3H, c3E, c4K, c4G, c5G, c5B	c1C, c3H, c3E, c4K, c4G, c5G, c5B	c1C, c3H, c3E, c4K, c4G, c5G, c5B
Lesson Cycle	Engage: Warm-Up/Opening (min)	Warm up list	Warm up list	Notes taking
	Explain: Guided Practice (min):	Trig identities page 481, page 483, Page 484 Double angles formulas, Page 485 tan identity, Page 487 half-angle formula and Page 493 Product-to-Sum and Sum-to-Product Formulas	Trig identities page 481, page 483, Page 484 Double angles formulas, Page 485 tan identity, Page 487 half-angle formula and Page 493 Product-to-Sum and Sum-to-Product Formulas	No Quiz but Independent studies day chapter 4, Logs and Exponents. Turn in Project electronically @ 11:59 pm.
	Elaborate: Independent Practice (min):	Solve identity problems.	Solve identity problems	No Quiz but Independent studies day chapter 4, Logs and Exponents. Turn in Project electronically @ 11:59 pm.
	Closing (min.):	Copy formulas and create example	Copy formulas and create example	Summary of the day
Reinforce ment	Materials/ Resources:	Notebook, Smartboard, Text book and laptops.	Notebook, Smartboard, Text book and laptops.	Notebook, Smartboard, Text book and laptops.
	Homework	See HOW and POW of Week 9	See HOW and POW of Week 9	See HOW and POW of Week 9

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MODIFICATIONS and/or ACCOMODATIONS: <i>-Gifted and Talented</i> <i>-ELL/ ESL</i> <i>-Special Education</i>	-Included in ELPS list above. -Time adjustment on assignments based on students need.	-Included in ELPS list above. -Time adjustment on assignments based on students need.	-Included in ELPS list above. -Time adjustment on assignments based on students need.
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***All lesson plans are subject to revisions and addendums by teacher.**

Unit 5: Trigonometric Identities Students analyze and transform trigonometric functions and identities