Instructional Guide

Grade Level Eleventh

Subject Pre Calculus

School System Pickens_County___

School Year 2011-2012

Time Period	State	Standards/ Components	Resources/	Date of Common	Mapping
when)	Correlations	(Pacing – what)	(Pacing – how)	Formative	works what needs
			Curricular Alignment	Assessment (Pacing – how well)	adjustment)
1 st 9 weeks					
1 day		PreCal.6.1.a. Determine the inverse of a function PreCal.6.1.b. Determine the inverse of a relation	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.4, amc.glencoe.com, skills tutor software, Compass Vocabulary: inverse, horizontal Use/develop practice worksheets. Emphasize to students f ⁻¹ is notation and not operation.		
2 days		PreCal.7.1.00 Analyze piecewise- defined functions graphically to determine domain and range PreCal.7.1.pp Analyze piecewise- defined functions algebraically to determine domain and range	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 1.7, amc.glencoe.com, skills tutor software, Compass Vocabulary: piecewise, step function, absolute value function Use/develop practice worksheets. Exposure to graphs of various functions.		

Time Period (Pacing – when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
1 ST 9 Weeks 1 day		PreCal.7.1.qq Analyze piecewise- defined functions graphically to identify symmetries PreCal.7.1.rr Analyze piecewise- defined functions algebraically to identify symmetries	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.1, amc.glencoe.com, skills tutor software, Compass Vocabulary: symmetry Use and develop practice sheets. Internet resources		

Time	State	Standards/ Components	Resources/	Date of	Mapping
Period	Assessment		Activities	Common	Comments
(Pacing –	Correlations	(Pacing – what)	(Pacing – now) Curricular Alignment	Assessment (Pacing – how well)	(What Works what needs adjustment)
when)					
1 st 9 weeks					
3 days		PreCal.7.1.ss Analyze piecewise-defined functions graphically to classify functions as increasing or decreasing PreCal.7.1.tt Analyze piecewise-defined functions algebraically to classify functions as increasing or decreasing PreCal.7.1.uu Analyze piecewise-defined functions graphically to classify functions as continuous or discontinuous PreCal.7.1.vv Analyze piecewise-defined functions graphically to identify the type of discontinuity if one exists PreCal.7.1.ww Analyze piecewise-defined functions algebraically to classify functions as continuous or discontinuous PreCal.7.1.xx Analyze piecewise-defined functions algebraically to identify the type of discontinuity if one exists	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.5, amc.glencoe.com, skills tutor software, Compass Vocabulary: continuous, discontinuous Use and develop practice sheets. Internet resources.		

Time	State	Standards/ Components	Resources/	Date of Common	Mapping Commonts
renou	Correlations	(Pacing – what)	(Pacing – how)	Formative	(What works
(Pacing			Curricular Alignment	Assessment (Pacing – how	what needs
– when)			Curricular Angriment	well)	aujustmentj
1 st 9					
weeks					
2 days		PreCal.7.1.a. Analyze rational functions graphically to determine domain and range PreCal.7.1.c. Analyze rational functions algebraically to determine domain and range	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.7 & 4.6, amc.glencoe.com, skills tutor software, Compass		
1 day		PreCal.7.1.c. Analyze rational functions graphically to identify symmetries PreCal.7.1.d. Analyze rational functions algebraically to identify symmetries	Text/Teaching Materials: Glencoe Advanced Mathematical Concepts 3.1, amc.glencoe.com, skills tutor software, Compass Vocabulary: image point, symmetry Use and develop practice sheets. Revisit exponents.		
1 day		PreCal.7.1.e. Analyze rational functions graphically to classify functions as increasing or decreasing PreCal.7.1.f.Analyze rational functions algebraically to classify functions as increasing or decreasing	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.5, amc.glencoe.com, skills tutor software, Compass Vocabulary: discontinuous, discontinuity, continuous, noncontinuity Use and develop practice sheets. Internet resources.		

Time Period (Pacing	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
when) 1 st 9 weeks					
1 day	ACT	PreCal.12.1 Determine the value of the six trigonometric functions for special angles	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 6.1, amc.glencoe.com, skills tutor software, Compass Vocabulary: radian, central angle, circular arc, sector		
1 day		PreCal.11.1.a Apply the law of sines to determine missing measures of angles including application-based problems PreCal.11.B.1.a Deriving formulas for the law of sines	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 5.7, amc.glencoe.com, skills tutor software, Compass Vocabulary: ambiguous Use/develop practice worksheets. Emphasize care when labeling triangle.		
1 day		PreCal.11.1.b Apply the law of cosines to determine missing measures of angles including application-based problems PreCal.11.B.1.b Deriving formulas for the law of cosines PreCal.11.B.2 Determining area of oblique triangles	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 5.8, amc.glencoe.com, skills tutor software, Compass Vocabulary: Hero's formula Use/develop practice worksheets. Emphasize care when labeling triangles.		

Time Period	State Assessment	Standards/ Components	Resources/	Date of Common	Mapping Comments
renou	Correlations	(Pacing – what)	(Pacing – how)	Formative	(What works
(Pacing				Assessment	what needs
-			Curricular Alignment	well)	adjustment)
when)					
1 st 9					
weeks					
		PreCal.10.1.a Solve trigonometric	Text/Teaching Materials: Glencoe		
1 dav		equations using sum and difference	Advanced Mathematical Concepts		
1 duj		identities	7.3, amc.glencoe.com, skills tutor		
		PreCal.12.B.1.a Using the sum and	software, Compass		
		difference identities to find the exact	Vocabulary: identity		
		value of a trigonometric function	Use and develop practice sheets.		
		PreCal.10.1.b Solve trigonometric	Text/Teaching Materials: Glencoe		
1 dav		equations using half- and double-angle	Advanced Mathematical Concepts		
1 duj		identities	7.4, amc.glencoe.com, skills tutor		
		PreCal.12.B.1.b Using the half-angle	software, Compass		
		identities to find the exact value of a	Use/develop practice worksheets.		
		trigonometric function			
	ACT	PreCal.10.B.1 Verifying	Text/Teaching Materials: Glencoe		
2 days		trigonometric identities	Advanced Mathematical Concepts		
			7.1, amc.glencoe.com, skills tutor		
			software, Compass		
			Vocabulary: reciprocal, Pythagorean,		
			symmetry		
			Use and develop practice materials.		
		PreCal.9.1.d Determine the domain and	Text/Teaching Materials: Glencoe		
1 dav		range of trigonometric functions	Advanced Mathematical Concepts		
			6.3 & 6.8, amc.glencoe.com, skills		
			tutor software, Compass		

Time Period (Pacing	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how)	Date of Common Formative Assessment	Mapping Comments (What works what needs
when)			Curricular Alignment	(Pacing – how well)	adjustment)
1 st 9 weeks					
1 day		PreCal.7.1.cc Analyze trigonometric functions graphically to determine domain and range PreCal.7.1.dd Analyze trigonometric functions algebraically to determine domain and range	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 5.3 & 6.3, amc.glencoe.com, skills tutor software, Compass Vocabulary: sine, cosine, tangent, period Use and develop practice sheets. Internet resources		
1day		PreCal.7.1.ee Analyze trigonometric functions graphically to identify symmetries PreCal.7.1.ff Analyze trigonometric functions algebraically to identify symmetries	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.1 & 6.3, amc.glencoe.com, skills tutor software, Compass Vocabulary: period Use and develop practice sheets. Internet resources.		
1 day		PreCal.7.1.gg Analyze trigonometric functions graphically to identify vertical or horizontal, and oblique asymptotes PreCal.7.1.hh Analyze trigonometric functions algebraically to identify asymptotes	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.7 & 6.3, amc.glencoe.com, skills tutor software, Compass Vocabulary: asymptote, oblique Use and develop practice sheets. Internet resources		

Time	State	Standards/ Components	Resources/	Date of	Mapping
Period	Assessment		Activities	Common	Comments
(Pacing –	Correlations	(Pacing – what)	(Pacing – how) Curricular Alignment	Assessment (Pacing – how well)	(What works what needs adjustment)
when)					
1 st 9					
3 days		PreCal.7.1.ii Analyze trigonometric functions graphically to classify functions as increasing or decreasing PreCal.7.1.jj Analyze trigonometric functions algebraically to classify functions as increasing or decreasing PreCal.7.1.kk Analyze trigonometric functions graphically to classify functions as continuous or discontinuous PreCal.7.1.ll Analyze trigonometric functions graphically to identify the type of discontinuity if one exists PreCal.7.1.mm Analyze trigonometric functions algebraically to classify functions as continuous or discontinuous PreCal.7.1.nn Analyze trigonometric functions algebraically to identify the type of discontinuity if one exists	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.5 & 6.3, amc.glencoe.com, skills tutor software, Compass Vocabulary: continuous, discontinuous Use and develop practice sheets. Internet resources.		

Time Period	State Assessment	Standards/ Components	Resources/ Activities	Date of Common	Mapping Comments
	Correlations	(Pacing – what)	(Pacing – how)	Formative	(What works
(Pacing				Assessment (Pacing – how	what needs
-			Curricular Alignment	well)	adjustment)
when)					
1 St O					
19					
weeks					
		PreCal.9.1.a Determine the amplitude of	Text/Teaching Materials: Glencoe		
1 day		trigonometric functions	Advanced Mathematical Concepts		
		PreCal.9.1.b Determine the period of	6.3 & 6.4, amc.glencoe.com, skills		
		trigonometric functions	tutor software, Compass		
			Vocabulary: amplitude, frequency,		
			period		
			Teacher made practice materials		
			With the supplemental materials		
		PreCal.9.1.c Determine the phase	Text/Teaching Materials: Glencoe		
1 day		shift of trigonometric functions	Advanced Mathematical Concepts		
			6.5, amc.glencoe.com, skills tutor		
			software, Compass		
			Vocabulary: midline		
			Teacher made practice materials		
			With supplemental materials		
		PreCal.9.1.e Determine the inverses	Text/Teaching Materials: Glencoe		
2 days		of trigonometric functions	Advanced Mathematical Concepts		
-			5.5 & 6.8, amc.glencoe.com, skills		
	ACT		tutor software, Compass		
			Vocabulary: principal value, inverse		
			Use/develop practice worksheets		

Time Period	State Assessment	Standards/ Components	Resources/ Activities	Date of Common	Mapping Comments
(Pacing	Correlations	(Pacing – what)	(Pacing – how)	Formative Assessment	(What works
when)			Curricular Alignment	(Pacing – how well)	adjustment)
1 st 9					
weeks					
		PreCal.1.a. Perform vector operation of	Glencoe Advanced Mathematical		
2 days		Addition.	Concepts		
		PreCal.1.b. Perform vector operation of	8.1 & 8.2, amc.glencoe.com, skills		
		Scalar Multiplication	tutor software, Compass		
		PreCal.1.c. Perform vector operation of	Vocabulary: terminal, point,		
		absolute value	magnitude, resultant, initial,		
			Review prerequisite skills		
			Use and develop practice		
			worksheets. (Teacher-		
			made/computer generated.)		
			Reteach geometric vectors		
		PreCal.1.B.1.a. Determining	Text/Teaching Materials: Glencoe		
1 dav		Coincidence	Advanced Mathematical Concepts		
		PreCal.1.B.1.b. Determining	8.4, amc.glencoe.com, skills tutor		
		parallelism	software, Compass		
		PreCal.1.B.1.c. Determining	Vocabulary: Coincidence,		
		collinearity	Parallelism, Collinearity,		
		PreCal.1.B.1.d. Determining	Perpendicularity		
		perpendicularity			

Time Period (Pacing - when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
1 st 9 weeks					
1 day		PreCal.1.B.2.a. Using vectors to model application-based situations PreCal.1.B.2.b. Using vectors to model mathematical situations	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 8.5, 8.6, & 8.7, amc.glencoe.com, skills tutor software, Compass Vocabulary: parametric, parametric equations		

Time Period (Pacing -	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
when)					
1 st 9					
1 day		PreCal.13.1.a Utilize parametric equations PreCal.13.B.1 Solving application-based problems involving parametric equations PreCal.13.1.b Utilize parametric equations by converting to rectangular form PreCal.13.B.2 Solving applied problems that include sequences with recurrence relations	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 8.6 & 8.7, amc.glencoe.com, skills tutor software, Compass Vocabulary: projectiles, velocity, displacement Supplemental materials from the internet. Use/develop practice worksheets.		
1 day	ACT	PreCal.5.a. Create graphs of parabolas from second-degree equations PreCal.5.B.1. Formulating equations of conic sections from their determining characteristics	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 10.5, amc.glencoe.com, skills tutor software, Compass Vocabulary: focus, directrix, axis of symmetry, locus Use/develop practice worksheets.		

Time Period	State Assessment	Standards/ Components	Resources/ Activities	Date of Common	Mapping Comments
(Pacing	Correlations	(Pacing – what)	(Pacing – how)	Assessment	(What works
when)			Curricular Alignment	(Pacing – how well)	adjustment)
1 st 9					
weeks					
1 ½ days		PreCal.5.b. Create graphs of hyperbolas from second-degree equations PreCal.5.B.1. Formulating equations of conic sections from their determining characteristics	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 10.4, amc.glencoe.com, skills tutor software, Compass Vocabulary: hyperbola, foci, asymptotes, transverse axis, conjugate axis, equilateral Use/develop practice worksheets Improper form of the equation		
1 ¹ /2 days		PreCal.5.c. Create graphs of ellipses from second-degree equations PreCal.5.B.1. Formulating equations of conic sections from their determining characteristics	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 10.3, amc.glencoe.com, skills tutor software, Compass Vocabulary: major axis, minor axis, vertices, semi, eccentricity Use/develop practice worksheets. Students who use an improper form of the equation.		

Time Period (Pacing - when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
1 st 9 weeks					
1 day		PreCal.5.d. Create graphs of circles from second-degree equations PreCal.5.e. Create graphs of degenerate conics from second-degree equations PreCal.5.B.1. Formulating equations of conic sections from their determining characteristics	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 10.2, amc.glencoe.com, skills tutor software, CompassVocabulary: concentric, conic section, degenerate conic Use/develop practice worksheets.		

Time Period (Pacing - when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
$2^{nd} 9$					
weeks					
2 days		PreCal.4.a. Determine characteristics of arithmetic sequences PreCal.4.b. Determine characteristics of arithmetic sequences defined with recurrence relations PreCal.4.c. Determine characteristics of arithmetic sequences defined with first terms, common differences, and n th terms PreCal.4.d Determine characteristics of arithmetic series PreCal.4.e. Determine characteristics of arithmetic series PreCal.4.e. Determine characteristics of arithmetic series defined with recurrence relations PreCal.4.f. Determine characteristics of arithmetic series defined with first terms, common differences, and n th terms.	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 12.1, amc.glencoe.com, skills tutor software, Compass Vocabulary: sequence terms, arithmetic sequence, series, arithmetic series, recursive formula, arithmetic mean Use/develop practice worksheets.		

Time Period	State Assessment	Standards/ Components	Resources/ Activities	Date of Common	Mapping Comments
(Pacing	Correlations	(Pacing – what)	(Pacing – how)	Formative Assessment	(What works
when)			Curricular Alignment	(Pacing – how well)	adjustment)
2 nd 9					
weeks					
2 days		PreCal.4.g. Determine characteristics of geometric sequences PreCal.4.h. Determine characteristics of geometric sequences defined with recurrence relations PreCal.4.i. Determine characteristics of geometric sequences defined with first terms, common differences, and n th terms PreCal.4.j. Determine characteristics of geometric series PreCal.4.k. Determine characteristics of geometric series defined with recurrence relations PreCal.4.1. Determine characteristics of geometric series defined with first terms,	Advanced Mathematical Concepts 12.2, amc.glencoe.com, skills tutor software, Compass Vocabulary: geometric sequence, common ratio, geometric mean, geometric series Use/develop practice worksheets.		
		PreCal.4.B.1. Solving problems modeled by finite geometric series, including home mortgage problems			

Time Period	State Assessment	Standards/ Components	Resources/ Activities	Date of Common	Mapping Comments
(Pacing	Correlations	(Pacing – what)	(Pacing – how) Curricular Alignment	Formative Assessment (Pacing – how well)	(What works what needs adjustment)
when)					
2 nd 9 weeks					
2 days		PreCal.4.m. Determine characteristics of arithmetic sequences defined with limits PreCal.4.n.Determine characteristics of geometric sequences defined with limits	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 12.3, amc.glencoe.com, skills tutor software, Compass Vocabulary: infinite sequence, limit infinite sequence Use and develop practice sheets. Internet resources.		
2 days		PreCal.4.o. Determine characteristics of arithmetic series defined with statements of convergence PreCal.4.p. Determine characteristics of arithmetic series defined with statements of divergence PreCal.4.q. Determine characteristics of geometric series defined with statements of convergence PreCal.4.r. Determine characteristics of geometric series defined with statements of convergence	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 12.4, amc.glencoe.com, skills tutor software, Compass Vocabulary: converge, diverge, comparison test		

Time	State	Standards/ Components	Resources/	Date of	Mapping
Period	Assessment	(Pacing what)	Activities	Common Formative	Comments
(Pacing	Correlations	(Facility – wilat)	(Facing – now)	Assessment	what needs
-			Curricular Alignment	(Pacing – how	adjustment)
				weny	
when)					
2 nd 9					
weeks					
2 days		PreCal.4.B.2 Expanding binomials raised to a whole number power using the binomial theorem PreCal.7.1.q. Analyze exponential	Text/Teaching Materials: Glencoe Advanced Mathematical Concepts 12.6, amc.glencoe.com, skills tutor software, Compass Vocabulary: Pascal's triangle, Binomial Theorem Use and develop practice sheets. Internet resources. Text/Teaching Materials: Glencoe		
2 days		functions graphically to determine domain and range PreCal.7.1.r. Analyze exponential functions algebraically to determine domain and range	Advanced Mathematical Concepts 11.2, amc.glencoe.com, skills tutor software, Compass Vocabulary: growth, decay Use and develop practice sheets. Internet resources		
2 days		PreCal.7.1.s. Analyze exponential functions graphically to identify symmetries PreCal.7.1.t. Analyze exponential functions graphically to identify symmetries	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.1, amc.glencoe.com, skills tutor software, Compass Vocabulary: image point Use and develop practice sheets. Internet resources		

Time Period (Pacing	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how)	Date of Common Formative Assessment (Pacing – how	Mapping Comments (What works what needs
– when)			Curricular Alignment	well)	adjustment)
2 nd 9 weeks					
2 days		PreCal.7.1.u. Analyze exponential functions graphically to identify horizontal asymptotes PreCal.7.1.v. Analyze exponential functions algebraically to identify horizontal asymptotes PreCal.7.1.w. Analyze exponential functions graphically to classify functions as increasing or decreasing PreCal.7.1.x. Analyze exponential functions algebraically to classify functions as increasing or decreasing	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.7 & 11.2, amc.glencoe.com, skills tutor software, Compass Vocabulary: asymptote Use and develop practice sheets. Internet resources		

Time	State	Standards/ Components	Resources/	Date of	Mapping
Period	Assessment	(Pacing – what	Activities (Pacing – bow)	Formative	Comments (What works
(Pacing	Correlations	(racing – what	(i acing – now)	Assessment	what needs
-			Curricular Alignment	(Pacing – now well)	adjustment)
when)					
2^{nd} 9					
weeks					
2 days		PreCal.7.1.y. Analyze exponential functions graphically to classify functions as continuous or discontinuous PreCal.7.1.z. Analyze exponential functions graphically to identify the type of discontinuity if one exists PreCal.7.1.aa. Analyze exponential functions algebraically to classify functions as continuous or discontinuous PreCal.7.1.bb. Analyze exponential functions algebraically to identify the tunctions algebraically to identify the	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.5, amc.glencoe.com, skills tutor software, Compass Vocabulary: discontinuity, continuity Use and develop practice sheets. Internet resources.		
2 days		PreCal.14.1.a Apply laws of logarithms to simplify expressions PreCal.14.1.b Apply laws of logarithms to solve equations using common logarithms PreCal.14.1.c Apply laws of logarithms to solve equations using logarithms with	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 11.4 &11.5, amc.glencoe.com, skills tutor software, Compass Vocabulary: logarithm, logarithmic, mantissa, antilogarithms Use/develop practice worksheets.		

Time Period (Pacing - when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
2 nd 9 weeks					
2 days		PreCal.14.1.d Apply laws of logarithms to solve equations using natural logarithms	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 11.6, amc.glencoe.com, skills tutor software, Compass Vocabulary: Ln, antiLn Use and develop practice materials		
2 days	ACT	PreCal.7.1.g. Analyze logarithmic functions graphically to determine domain and range PreCal.7.1.h. Analyze logarithmic functions algebraically to determine domain and range	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 11.4, amc.glencoe.com, skills tutor software, Compass Use and develop practice sheets. Internet resources.		

Time Period (Pacing	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how)	Date of Common Formative Assessment (Pacing – how	Mapping Comments (What works what needs
– when)			Curricular Alignment	well)	adjustment)
2 nd 9 weeks					
2 days		PreCal.7.1.i. Analyze logarithmic functions graphically to identify symmetries PreCal.7.1.j. Analyze logarithmic functions algebraically to identify symmetries PreCal.7.1.k. Analyze logarithmic functions graphically to classify functions as increasing or decreasing PreCal.7.1.1 Analyze logarithmic functions algebraically to classify	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.1 & 11.4, amc.glencoe.com, skills tutor software, Compass Use and develop practice sheets. Internet resources		

Time	State	Standards/ Components	Resources/	Date of	Mapping
Period	Assessment	(Pacing – what)	Activities (Pacing – bow)	Formative	Comments (What works
(Pacing	Conclations	(i doing what)	(raonig now)	Assessment	what needs
-			Curricular Alignment	(Pacing – now well)	adjustment)
when)				,	
2 nd 9					
weeks					
1 day		PreCal.7.1.m. Analyze logarithmic functions graphically to classify functions as continuous or discontinuous PreCal.7.1.n. Analyze logarithmic functions algebraically to classify functions as continuous or discontinuous PreCal.7.1.o. Analyze logarithmic functions graphically to identify the type of discontinuity if one exists PreCal.7.1.p. Analyze logarithmic functions algebraically to identify the type discontinuity if one exists	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 3.5 & 11.4, amc.glencoe.com, skills tutor software, Compass Vocabulary: continuous, discontinuous Use and develop practice sheets. Internet resources		
2 days		 PreCal.16.1.a Determine the equation of a curve of best fit from a set of data using exponential functions. PreCal.16.1.b Determine the equation of a curve of best fit from a set of data using quadratic functions. PreCal.16.1.c Determine the equation of a curve of best fit from a set of data using logarithmic functions. 	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 1.6 &4.8, amc.glencoe.com, skills tutor software, Compass Vocabulary: model Supplement with internet resources.		

Time Period	State Assessment	Standards/ Components	Resources/ Activities (Pacing – bow)	Date of Common Formative	Mapping Comments
(Pacing –	Correlations	(racing – what)	Curricular Alignment	Assessment (Pacing – how well)	what needs adjustment)
when)					
2 nd 9					
weeks					
2 days		PreCal.3.a. Determine numerically the limits of functions at specific values PreCal.3.b. Determine numerically the limits of functions at infinity PreCal.3.c. Determine algebraically the limits of functions at specific values PreCal.3.d. Determine algebraically the limits of functions at infinity	Glencoe Advanced Mathematical Concepts 15.1 & 12.3, amc.glencoe.com, skills tutor software, Compass Vocabulary: limit, infinite Use/develop practice worksheets.		
1 day		PreCal.3.e. Determine graphically the limits of functions at specific values PreCal.3.f. Determine graphically the limits of functions at infinity	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts amc.glencoe.com, skills tutor software, Compass Use internet supplied materials. Use and develop practice sheets. Use internet supplied materials.		

Time Period (Pacing -	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
when)					
2 nd 9 weeks					
1 day		PreCal.3.B.a Applying limits in problems involving convergence PreCal.3.B.b Applying limits in problems involving divergence	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 12.3 & 12.4, amc.glencoe.com, skills tutor software, Compass Vocabulary: converge, diverge Use and develop practice worksheets. Use and develop practice worksheets.		
1 day		PreCal.7.B.1 Using the difference quotient to approximate rates of change	Text/Teaching Materials : Glencoe Advanced Mathematical Concepts 15.2, amc.glencoe.com, skills tutor software, Compass Vocabulary: rate of change, anti- derivative, derivative, tangent line, secant line		
			Use/develop practice worksheets.		

Time Period	State Assessment	Standards/ Components	Resources/ Activities	Date of Common	Mapping Comments
	Correlations	(Pacing – what)	(Pacing – how)	Formative Assessment	(What works
(Pacing			Curricular Alignment	(Pacing – how	what needs
- when)			Curricular Anghiment	well)	aujustmentj
and o					
2 nd 9					
weeks					
		PreCal.2.a. Define e using the limit form	Text/Teaching Materials: Glencoe		
2 days		of $\sum 1/n!$	Advanced Mathematical Concepts		
		PreCal.2.b. Define e using the limit form	12.5, amc.glencoe.com, skills tutor		
		of $\lim_{n \to \infty} (1 + 1/n)^n$	software, Compass		
		PreCal.2.c. Define e using the limit form	Vocabulary: limit, sigma notation,		
		of $\lim_{n \to \infty} (1 + n)^{1/n}$	summation, factorial		
			Use and develop supplemental		
			materials from internet resources.		
			Use and develop practice sheets.		
			Review <i>e</i> , limits, and other		
			prerequisite skills.		
		PreCal.8.1. Compare effects of parameter	Text/Teaching Materials:		
2 days		changes on graphs of transcendental	Internet, amc.glencoe.com, skills		
		functions.	tutor software, Compass		
			Supplemental materials from the		
			internet		
			Supplemental materials from the		
			internet		
		PreCal.15.1.c Convert coordinates,	Text/Teaching Materials: Glencoe		
2 days		equations, and complex numbers from	Advanced Mathematical Concepts		
		Cartesian form to polar form	9.3, amc.glencoe.com, skills tutor		
		PreCal.15.1.d Convert polar coordinates	software, Compass		
		to coordinates, equations, and complex	Vocabulary: complex numbers		
		numbers in Cartesian form	Use/develop practice worksheets.		

Time Period	State Assessment	Standards/ Components	Resources/ Activities	Date of Common Formative	Mapping Comments
(Pacing –	Correlations	(Facing – wilat)	Curricular Alignment	Assessment (Pacing – how	what needs adjustment)
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when)					
2^{na} 9					
weeks					
		PreCal.15.1.a Determine the location of	Text/Teaching Materials: Glencoe		
1 day		polar coordinates on the complex plane	Advanced Mathematical Concepts		
-			9.1 & 9.2, amc.glencoe.com, skills		
			tutor software, Compass		
			Vocabulary: polar, pole, rose,		
			cardioid, classical curves		
			Use/develop practice worksheets.		
			Expose students to complex plane.		
		PreCal.15.1.b Determine the location of	Text/Teaching Materials: Glencoe		
1 day		complex numbers on the complex plane	Advanced Mathematical Concepts		
			9.6, amc.glencoe.com, skills tutor		
			software, Compass		
			Vocabulary: Argand plane, modulus,		
			argument		
			Use/develop practice worksheets.		
			Expose students to complex plane.		