PEARL RIVER SCHOOL DISTRICT

Secondary Math- Year-at-a-Glance

	September	October	November	December	January	February	March	Ар	ril May	June	Assessment
Grade 8	Real Number System Expressions and Exponents & operations with Scientific Notation		So	Solving Systems of Equations Functions Angle Relationships		Transformations Volume & its' applications Statistics		Pythagorean Theorem Polynomials Factoring		Local	
										Assessment	
			c An							New York	
										State Exam	
	Equations (one variable)										
	Linear Equations										
CC Algebra	Algebraic and Linear Equations			Understanding and Applying		Polynomials and Factoring		Graphing and Analyzing		Regents	
CC Algebra 8	Functions			Linear Relationships		Radicals		Parent Functio	ns		
	Linear Relationships			Applications of Systems of		Graphing, Analyzing and		Statistics			
CC Algebra H				uations and Ir	•	Applying C	Quadratic				
				Introduction to Parent		Functions					
Foundations of	Decilalia - Dia			nctions		Linnantan			Fastavina		Land
Algebra	Building Blocks of Algebra			Linear Functions		Linear Inequalities Systems of		Factoring Quadratic Functions		Local	
18	Algebraic Equations Inequalities			Understanding and Applying		Equations/Inequalities				Assessment	
	Functions	•	LII	Linear Relationships		Sequences		Quadratic Equal Statistics	ILIONS		
	Functions						al Functions		Statistics		
CC Geometry	Constructio	ıns	Tra	Transformations		Quadrilate			Trigonometry		Regents
,	Basic Geometry Concepts			Lines and Circles Equations		1	Coordinate Geometry		Circle Theorem	ıc	Regents
	Points of Co			iadrilaterals	3 Equations	Similarity	e deometry		Solid Geometr		
		•		iddinaterais		Trigonome	etrv		John Geometi	•	
CC Geometry H	Congruence Proofs Constructions		Ter	Transformations		_	Quadrilateral Proofs		Trigonometry		Regents
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CC Algebra 2		and Factoring		ponential Fun		Radicals			Probability		Regents
	Rational Ex	pressions		garithmic Fun		Complex N			Statistics		
	Functions		_	adratic Funct		Trigonome	•		Regents Review	V	
CC Algebra 2.11		eling and Sys		quences and S		Polynomia	IIS		Duala alailita		Donouto
CC Algebra 2 H	•	and Factoring		ponential Fun		Radicals	to and home to		Probability		Regents
	Rational Ex	pressions		garithmic Fun		Complex N			Statistics		
	Functions		1	Quadratic Functions		Trigonometry		Regents Review			
	Linear Modeling and Systems			Sequences and Series		Polynomials					

Math Analysis	Factoring Solving Quadratic Equations (factoring, quadratic formula, completing the square, word problems) Rational Expressions	Complex Numbers Functions Phase Shifts Sequences and Series	Exponential Functions Log Functions Basics of Trigonometry	Trigonometric Graphs Probability Statistics	Local Assessment
Business Math	College Algebra and Algebra Review	Gross Pay Net Pay	Bank Accounts Basic Loans	Owning a Home Purchasing a Car	Local Assessment
Intro to Calculus	Equations and Higher Order Factoring Complex Numbers and Quadratics Polynomial Functions	Analytic Geometry Inequalities Matrices Exponential and Log Functions	Rational Functions Limits Derivatives	Trigonometry	Local Assessment
Calculus	Pre-calculus topics including: equations of lines, systems of equations, functions, trigonometry piecewise functions, synthetic division Limits: finding from graphs and algebraically. Squeeze theorem.	Continuity: identifying discontinuities (holes and asymptotes) graphically and algebraically: Derivatives as an instantaneous rate of change. computing with limit formula, differentiation rules (product, quotient, chain, implicit)	Applications of derivatives including; writing equations of tangent lines, related rates, interpreting graphs of derivatives extrema, optimization problems	Integration, u-substitution, definite integrals, Applications of integrals area under a curve, bounded areas, motion problems	Local Assessment
Calculus H	Pre-calculus topics including: equations of lines, systems of equations, functions, piecewise functions, synthetic division Trigonometry: evaluating trig functions, trig equations Limits: finding from graphs and algebraically. Squeeze theorem.	Continuity: identifying discontinuities (holes and asymptotes) graphically and algebraically: Derivatives as an instantaneous rate of change. computing with limit formula, differentiation rules (product, quotient, chain, implicit)	Applications of derivatives including; writing equations of tangent lines, related rates, interpreting graphs of derivatives extrema, optimization problems Newton's method	Integration, u-substitution, definite integrals, Applications of integrals area under a curve, bounded areas, motion problems	Local Assessment

AP Calculus AB	Range of a function	Exponential functions:	Volumes of revolution	AP review	AP exam
	Formal definition of continuity	derivatives, antiderivatives	around vertical and	(May- AP exam)	
	and differentiability Mean Value Theorem/Rolle's theorem Local Linearity Natural log functions: derivatives, antiderivatives applications such as extrema, motion, tangent lines	applications such as extrema, motion, tangent lines solving differential equations Growth and Decay Slope fields	horizontal lines Volumes with known cross sections Calculating net change and total accumulated change higher integration techniques: completing the square, integration by parts, inverse trig	Intro to additional Calculus topics: sequences and series	Local Assessment
			Derivatives of inverses		
SUNY Statistics MAT 125	Understanding the Literacy of Statistics, Graphing Statistics	Normal Curve and Z-Scores, Probability Distributions,			College (Local)
	for Understanding, Measures of Central Tendency,	Confidence Intervals, Evaluating the mean, Linear			Final
	Probability, Discrete Random Variables	Regressions, Least Squares Criteria, Chi-Square Test for the goodness for Fit			