NYS Learning / Core Standards	Content (What needs to be taught?)		Curriculum Material Used	(All( Assessments Used) (Daily/Weekly/Benchmarks)	Time Line
A-SSE 1ab,2,3a	Notations:	Sets	Text	Periodic (weekly) quizzes	
A-APR 1	Union Intersection	Jeis	TI 84 Calculators	Unit tests	
N-AIR I	Intervals	Open	Teacher generated handouts	Homework	
	vs. closed	Infinity	TI Enspire software	riomework	
	Polynomial Functions	±m, miry	Smartboard		
	Factoring techniques (grouping, diffe	erence of	Siliai iboai a		C +
	squares/cubes, sum of cubes)	creme of			September
	Inequalities:				
	Polynomials				
	Rationals (show table & number line	methods)			
	Rationals (Show Table & number line	memous)			
A-CED 2	Absolute value (one side & both sides	s) Use	Text	Periodic (weekly) guizzes	
F-LQE 2	cases	Linear	TI 84 Calculators	Unit tests	
G-GPE 5	Functions:	General form	Teacher generated handouts	Homework	
F-IF 7abc,8a	Slope-intercept	Point	TI Enspire software		
F-BF 3	Slope Intercept		Smartboard		
	,	ctions:			
	Determine x/y intercepts				October
	Symmetry (even/odd)	Semi-			October
	circle	Ellipses			
	(upper/lower half)	Power			
		ransformations			
	(horizontal/vertical shifts, stretchir	g, absolute value)			
		-			

NYS Learning / Core Standards	Content (What needs to be taught?)		Curriculum Material Used	(All( Assessments Used) (Daily/Weekly/Benchmarks)	Time Line
F-IF 1,2	Define functions in parts		Text	Periodic (weekly) quizzes	
F-BF 1bc	Inverses		TI 84 Calculators	Unit tests	
4abcd	Domain		Teacher generated handouts	Homework	
A-APR 2,3,6,8	Compositions Ope	rations	TI Enspire software		
	Direct & inverse variation		Smartboard		
	Polynomial functions & Operations:				November
	Long division				
	Synthetic division	Is			
	x-c a factor	Is c			
	a root				
N-CN 8,10	Descartes rule of signs	ational	Text	Periodic (weekly) quizzes	
A-REI 10,11	root theorem Interm	ediate	TI 84 Calculators	Unit tests	
F-IF 1,2,4,7,	value theorem Upper / lower	bounds	Teacher generated handouts	Homework	
	Use above methods to determine roots		TI Enspire software		
	Sum/product of roots		Smartboard		December
	Graphing polynomial functions to determine roo	ots and			December.
	factors	Rational			
	functions: Graphing	of x/y			
	intercepts Horizontal / ve	ertical			
	asymptotes				

NYS Learning / Core Standards	Content	Curriculum Material Used	(All( Assessments Used)	Time Line
F-IF 8b	(What needs to be taught?)	Text	(Daily/Weekly/Benchmarks) Periodic (weekly) guizzes	
r-1r ob F-BF 5	Graphing exponential & logarithmic functions:	TI 84 Calculators	Unit tests	
	Domain / range			
F-LQE 4	Use transformation concepts from chap. 2	Teacher generated handouts	Homework	
A-REI 6,7,8	Review solving linear-linear and linear quadratic	TI Enspire software		January
	systems of equations	Smartboard		,
	Introduction of 3 variable systems			
	solve by eliminations			
	Solve by matrices			
F-BF 2	Sequences and Series:	Text	Periodic (weekly) quizzes	
F-IF 3	General vs. recursive form	TI 84 Calculators	Unit tests	
	Arithmetic vs. geometric	Teacher generated handouts	Homework	
	Sum of:	TI Enspire software		
	n terms of an arithmetic seq. Partic	Smartboard		
	sum of an increasing geometric sequence			
	Sum of an infinite geometric sequences			
	Sigma notation			
	Arithmetic & geometric means TES	-		February
	HERE Limit	s:		
	Characteristics of sequences (inc, dec, monotone, lu	b,		
	glb, bounded) "Neighborhood"			
	concept, epsilon Prove limits	ру		
	using (L-E, L+E) as the neighborhood			
	Prove limits, find M for a given epsilon value			

NYS Learning /	Content		(All( Assessments Used)	Time Line
Core Standards	(What needs to be taught?)	Curriculum Material Used	(Daily/Weekly/Benchmarks)	
Periodic (weekly)	Limits of sequences:	Text	Periodic (weekly) quizzes	
quizzes	Relate to horizontal asymptote rules Behavio	TI 84 Calculators	Unit tests	
Unit tests	of numerator vs. denominator Review	Teacher generated handouts	Homework	
Homework	log/exponent properties What	TI Enspire software		
	happens as n approaches ∞ TEST	Smartboard		
	Limits of functions:			
	Behavior as $x \to \pm \infty$			
	Consider functions's domain			
	Functions defined in part			March
	Can the function be rewritten or simplified			
	QUIZ			
	Limit as $x \rightarrow a$ (one-sided limits)			
	Look at limits graphically			
	Asymptote vs. hole in graph			
	Indeterminate form			
	One sided limits when no true limit exists			
	rewriting functions when $f(a) = 0/0$			

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NYS Learning / Core Standards	Content (What needs to be taught?)		Curriculum Material Used	(All( Assessments Used) (Daily/Weekly/Benchmarks)	Time Line
N/A	Derivatives:	,	Text	Periodic (weekly) quizzes	
	What does it represent?	Find	TI 84 Calculators	Unit tests	
	by definition, evaluate at x=a	Equation of	Teacher generated handouts	Homework	
	tangent line	QUIZ	TI Enspire software		
	Derive power rule by binomial theorem	ı	Smartboard		
	Extended power rule				April
	Product rule				
	Derive quotient rule from product rule				
	Find when $f'(x) = 0$	Simplify			
	derivatives	TEST			
F-IF 4,7 abcde	Curve sketching:		Text	Periodic (weekly) quizzes	
	Find where $f'(x)=0$	Horizontal	TI 84 Calculators	Unit tests	
	tangent lines	Critical points	Teacher generated handouts	Homework	
	Determine intervals where $f(x)$ is increasing or		TI Enspire software		
	decreasing	Use	Smartboard		
	increasing / decreasing intervals to determine				
	maximum and minimums				May
	Second derivative				,
	Concavity, inflection points	Use			
	all of above to sketch functions	QUIZ			
	Use graphing calculator to assist with	maximum /			
	minimums , zeros, derivatives				
	QUIZ				

NYS Learning / Core Standards	Content (What needs to be taught?)	Curriculum Material Used	(All( Assessments Used) (Daily/Weekly/Benchmarks)	Time Line
	FINAL EXAM REVIEW	Text TI 84 Calculators	Periodic (weekly) quizzes Unit tests	
		Teacher generated handouts TI Enspire software	Homework	June
		Smanthoand		