

Week of	Standard/Benchmark (Common Core)	Concept & Knowledge	Skills	Resources	
February 5-9 Feb 12-16	F.BF 8F	<u>Applications of Exponential and Logarithmic Functions</u>	<ul style="list-style-type: none"> ○ Solving equations that involve a single logarithm ○ Solving equations that involve double logarithm ○ Solving equations that involve logarithm and exponential functions ○ Solving problems from daily life situations. 	Calculus (e-book) L. 4.1 L. 4.2 L. 4.3 L. 4.4	
Feb 19-21 Feb 27-March 2	F.IF A.SSE	<u>The trigonometric functions</u> sine & cosine functions	<ul style="list-style-type: none"> ○ Determine the amplitude, period, and phase shift for sine & cosine functions ○ Compose functions involving sine & cosine functions ○ sketching sine & cosine curves ○ Getting identities from definitions 	L. 5.1 L. 5.2 L. 5.3 L. 5.4	

PPT-Presentations, Practice book, notebook, worksheets as and when necessary.

March 5 – 9	G.GPE.1, 2	Graphing other Trigonometric functions	<ul style="list-style-type: none"> ○ Using identities to simplify ○ Evaluating trigonometric Functions 	L. 6.1	
March 12-16		Inverse trigonometric Functions	<ul style="list-style-type: none"> ○ Verifying identities ○ Factoring with trigonometric Functions ○ Graphing parabola ○ Finding vertex, focus, and directrix ○ Graphing circle and ellipse ○ Translation of circle and ellipse 	L. 6.2 L. 10.1 L. 10.2	

Week of	Standard/Benchmark (Common Core)	Concept & Knowledge	Skills	Resources
March 19-23 March 26-April 6	S.IC.3, 4	Sequences and Series	<ul style="list-style-type: none"> ○ Knowing to find terms of sequences at infinity ○ Knowing to find the sum of all kinds of sequences ○ Knowing to apply the Integral Test to Positive Sequences 	Calculus (e-book) L. 11.1 L. 11.2 L. 11.3
April 16-20		Combinations permutations		
		Operations on Power Series	<ul style="list-style-type: none"> ○ The First Fundamental Theorem of Calculus ○ The Second Fundamental Theorem of Calculus 	L. 11.5 L. 11.6
		Taylor and Maclaurin Series		

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April 23-27 April 30- May 4	S.IC.4, 5, 6	Matrices and determinants	<ul style="list-style-type: none"> ○ Solving linear system using matrices ○ Operations with matrices 	L.9.1 L.9.2	
May 7-11 May 15-19			<ul style="list-style-type: none"> ○ Multiplication of matrices ○ Finding the inverse of a matrix 	L.9.3 L.9.4	
May 20-24			<ul style="list-style-type: none"> ○ Solving linear system using determinants 	L.9.5	
May 27-31	Revision for the Final Test				