

Grade: 12

Week of	Standard/Benchmark (Common Core)	Concept & Knowledge	Skills	Resources
Jan 25– 29 Feb 1-5	F.BF 8F F.IF A.SSE	<u>The Mean Value Theorem of Integrals</u> <u>Technics of Integrations</u>	<ul style="list-style-type: none"> ○ <u>Finding The Average Value of a Function</u> ○ <u>Applying the symmetry Theorem for even or periodic functions</u> ○ <u>Using Reimann sum to evaluate a definite integral</u> ○ Finding integration by parts 	Calculus (e-book) L. 4.5 L. 4.6 L. 4.7 L. 7.2 L. 5.1 L. 5.2
Feb 8-12 Feb 15-19		<u>The Area of a plane shape</u> <u>Horizontal slicing</u> <u>Volumes of solids: Discs, Slabs, Washers</u>	<ul style="list-style-type: none"> ○ Finding the area formed by a graph and bounded by 2 vertical lines above the x axis ○ Finding the area between two graphs ○ Finding the volume of 3D shapes 	
March 1 – 5 March 8-12		Transcendental Functions Multiple Integrals	<ul style="list-style-type: none"> ○ Knowing the characteristics of the natural logarithm function ○ Knowing the characteristics of the natural exponential function ○ Knowing how to find the double integrals over rectangles ○ Knowing how to find iterated integrals 	

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

Week of	Standard/Benchmark (Common Core)	Concept & Knowledge	Skills	Resources
<p>March 15-19</p> <p>March 22-26</p>		<p>Infinite Sequences and Series</p> <p>Positive Series</p>	<p>Knowing to find terms of sequences at infinity</p> <p>Knowing to find the sum of all kinds of sequences</p> <p>Knowing to apply the Integral Test to Positive Sequences</p>	<p>Calculus (e-book)</p> <p>L. 9.1</p> <p>L. 9.2</p> <p>L. 9.3</p> <p>L. 9.7</p> <p>L. 9.8</p> <p>PPT-Presentations, Practice book, notebook, worksheets as and when necessary.</p>
<p>March 29- April2</p> <p>April 5-9</p>		<p>Operations on Power Series</p> <p>Taylor and Maclaurin Series</p>	<p>The First Fundamental Theorem of Calculus</p> <p>The Second Fundamental Theorem of Calculus</p>	