

Name: Mrs. Woods		Grading Quarter: 2	Week Beginning: 12/04/23
School Year: 23-24		Subject: AP Calculus AB	
Monday	Notes:	<p>Objective: Students will be able to find the volume using the shell method.</p> <p>Lesson Overview: Notes – how to find the area between curves, locate points of intersection, identify limits of integration Partition both x- and y-axis.</p>	<p>Academic Standards:</p> <p>8.11 Volume with Washer Method: Revolving Around the x- or y-Axis 4.E Apply appropriate rounding procedures.</p> <p>8.12 Volume with Washer Method: Revolving Around Other Axes 2.D Identify how mathematical characteristics or properties of functions are related in different representations.</p>
Tuesday	Notes:	<p>Objective: Students will be able to find the volume of solids with known cross sections.</p> <p>Lesson Overview: Notes – how does the cross section of a three-dimensional object look? Discs as cross sections Area goes to axis of revolution</p>	<p>Academic Standards:</p> <p>8.7 Volumes with Cross Sections: Squares and Rectangles 3.D Apply an appropriate mathematical definition, theorem, or test.</p> <p>8.8 Volumes with Cross Sections: Triangles and Semicircles 3.D Apply an appropriate mathematical definition, theorem, or test.</p>
Wednesday	Notes:	<p>Objective: Students will be able to find the volume of solids with known cross sections.</p> <p>Lesson Overview: <i>This is a continuation of the previous day's lesson.</i> Formatively assess student struggles and focus on those types of problems.</p>	<p>Academic Standards:</p> <p>8.7 Volumes with Cross Sections: Squares and Rectangles 3.D Apply an appropriate mathematical definition, theorem, or test.</p> <p>8.8 Volumes with Cross Sections: Triangles and Semicircles 3.D Apply an appropriate mathematical definition, theorem, or test.</p>

Thursday	Notes:	<p>Objective: Students will be able to find the volume of various solids.</p> <p>Lesson Overview: Notes – Mix examples of disk, washer, shell, and cross sections. Students will work in small groups on whiteboards to solve problems.</p>	<p>Academic Standards:</p> <p>8.11 Volume with Washer Method: Revolving Around the x- or y-Axis 4.E Apply appropriate rounding procedures.</p> <p>8.12 Volume with Washer Method: Revolving Around Other Axes 2.D Identify how mathematical characteristics or properties of functions are related in different representations.</p> <p>8.7 Volumes with Cross Sections: Squares and Rectangles 3.D Apply an appropriate mathematical definition, theorem, or test.</p> <p>8.8 Volumes with Cross Sections: Triangles and Semicircles 3.D Apply an appropriate mathematical definition, theorem, or test.</p>
Friday	Notes:	<p>Objective: Students will be able to show mastery of Chapter 6 concepts.</p> <p>Lesson Overview: Review game with teacher-created questions.</p>	<p>Academic Standards:</p> <p>8.11 Volume with Washer Method: Revolving Around the x- or y-Axis 4.E Apply appropriate rounding procedures.</p> <p>8.12 Volume with Washer Method: Revolving Around Other Axes 2.D Identify how mathematical characteristics or properties of functions are related in different representations.</p> <p>8.7 Volumes with Cross Sections: Squares and Rectangles 3.D Apply an appropriate mathematical definition, theorem, or test.</p> <p>8.8 Volumes with Cross Sections: Triangles and Semicircles 3.D Apply an appropriate mathematical definition, theorem, or test.</p>