

<b>Planned Course: Calculus I</b>		<b>Course Number: M311</b>		<b>Department: Math</b>	
<b>Unit: Inverse Functions</b>		<b>Grade Level: 10-12</b>			
<b>Estimated Time: 3 weeks</b>		<b>Level/Track: college</b>		<b>Date Approved: 7/15/08</b>	
<b>PA Academic Standards</b>	<b>Core Concepts (in question format)</b> • Skills/Knowledge	<b>Activities/Strategies/Study Skills</b> (identify some activities as remedial or enrichment activities)	<b>Assessments</b> (include types and topics)		

2.11.11.C Graph and interpret rates of growth/decay.	<p>Can the students apply calculus skills to logarithm and exponential equations?</p> <ul style="list-style-type: none"> <li>• SWBAT write the logarithmic equation as an exponential equation and vice versa.</li> <li>• SWBAT solve logarithmic equations.</li> <li>• SWBAT find derivatives of exponential and logarithmic functions.</li> <li>• SWBAT integrate exponential functions.</li> <li>• SWBAT solve growth and decay real world problems.</li> <li>• SWBAT solve Newton's Law of Cooling problems.</li> </ul>	<ul style="list-style-type: none"> <li>• Warm up exercise</li> <li>• Overhead transparencies</li> <li>• Exercises in book</li> <li>• Worksheets</li> <li>• Graphing Calculator</li> <li>• Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Quizzes</li> <li>• Tests</li> <li>• Homework</li> <li>• Graded assignments</li> <li>• Classroom participation</li> <li>• Questioning</li> <li>• Observation</li> </ul>		
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