

# Pickens High School Lesson Plan

**LESSON PLANS ARE SUBJECT TO CHANGE DAILY!**

**GradeLevel:** 12<sup>th</sup>      **Teacher/Room:** G. Culbreth / 211      **Course(s)/Period(s):** AP Calculus /      **1<sup>st</sup> Week of:** April 24-28

**Unit Vocabulary:** Related Rates, Optimization, Motion, Velocity, Acceleration, Position function, maximum value, minimum value

**Instructional Strategies Used:** direct instruction, independent study, interactive instruction

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b>Common Core Standard(s):</b> MCA1,3 L9-10RST7	<b>Common Core Standard(s)</b> MCA1,3 L9-10RST7	<b>Common Core Standard(s):</b> MCA1,3 L9-10RST7	<b>Common Core Standard(s):</b> MCA1,3 L9-10RST7	<b>Common Core Standard(s):</b> MCA1,3 L9-10RST7
<b>Essential Question:</b>  What are differentiation rules I need to know for the AP Test?	<b>Essential Question:</b>  What integration formulas do I need to know for the AP Test?	<b>Essential Question:</b>  What important theorems are there in Calculus and how are they applied?	<b>Essential Question:</b>  What applications of derivatives are there in calculus?	<b>Essential Question:</b>  What are some applications of integration used in calculus?
<b>Mini Lesson:</b> <ul style="list-style-type: none"><li>Derivatives and Integrals</li></ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"><li>Quick Review</li></ul> <b>Lesson:</b> <ul style="list-style-type: none"><li>AP Prepn –differentiation</li></ul> <b>Resource/Materials:</b> <ul style="list-style-type: none"><li>Text, TI89, graph boards, calc-chat</li></ul>	<b>Mini Lesson:</b> <ul style="list-style-type: none"><li>Derivatives and Integrals</li></ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"><li>Quick Review</li></ul> <b>Lesson:</b> <ul style="list-style-type: none"><li>AP Prep – integration</li></ul> <b>Resource/Materials:</b> <ul style="list-style-type: none"><li>Text, TI89, graph boards, calc-chat</li></ul>	<b>Mini Lesson:</b> <ul style="list-style-type: none"><li>Unit Circle</li></ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"><li>Quick Review</li></ul> <b>Lesson:</b> <ul style="list-style-type: none"><li>AP Prep - theorems and formulas</li></ul> <b>Resource/Materials:</b> <ul style="list-style-type: none"><li>Text, TI89, graph boards, calc-chat</li></ul>	<b>Mini Lesson:</b> <ul style="list-style-type: none"><li>Derivatives and Integrals</li></ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"><li>Quick Review</li></ul> <b>Lesson:</b> <ul style="list-style-type: none"><li>AP Prep – application problems</li></ul> <b>Resource/Materials:</b> <ul style="list-style-type: none"><li>Text, TI89, graph boards, calc-chat</li></ul>	<b>Mini Lesson:</b> <ul style="list-style-type: none"><li>Derivatives and Integrals</li></ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"><li>Quick Review</li></ul> <b>Lesson:</b> <ul style="list-style-type: none"><li>AP Prep – multiple choice / FRQ</li></ul> <b>Resource/Materials:</b> <ul style="list-style-type: none"><li>Text, TI89, graph boards, calc-chat</li></ul>
<b>Differentiation:</b> <i>Content/Process/Product:</i> <ul style="list-style-type: none"><li>Graphic organizers</li></ul> <i>Grouping Strategy (if any):</i> <ul style="list-style-type: none"><li>Flexible grouping</li></ul> <i>Assessment Strategy:</i> <ul style="list-style-type: none"><li>Systematic</li></ul>	<b>Differentiation:</b> <i>Content/Process/Product:</i> <ul style="list-style-type: none"><li>Graphic Organizers</li></ul> <i>Grouping Strategy (if any):</i> <ul style="list-style-type: none"><li>Flexible Grouping</li></ul> <i>Assessment Strategy:</i> <ul style="list-style-type: none"><li>Systematic</li></ul>	<b>Differentiation:</b> <i>Content/Process/Product:</i> <ul style="list-style-type: none"><li>Graphic Organizers</li></ul> <i>Grouping Strategy (if any):</i> <ul style="list-style-type: none"><li>NA Flexible Grouping</li></ul> <i>Assessment Strategy:</i> <ul style="list-style-type: none"><li>Systematic</li></ul>	<b>Differentiation:</b> <i>Content/Process/Product:</i> <ul style="list-style-type: none"><li>Graphic Organizers</li></ul> <i>Grouping Strategy (if any):</i> <ul style="list-style-type: none"><li>NA Flexible Grouping</li></ul> <i>Assessment Strategy:</i> <ul style="list-style-type: none"><li>Systematic</li></ul>	<b>Differentiation:</b> <i>Content/Process/Product:</i> <ul style="list-style-type: none"><li>Graphic Organizers</li></ul> <i>Grouping Strategy (if any):</i> <ul style="list-style-type: none"><li>NA Flexible Grouping</li></ul> <i>Assessment Strategy:</i> <ul style="list-style-type: none"><li>Systematic</li></ul>
<b>Assessment :</b> <i>Formative:</i>          <i>Summative:</i>	<b>Assessment :</b> <i>Formative:</i> check homework          <i>Summative:</i>	<b>Assessment :</b> <i>Formative:</i> Check homework          <i>Summative:</i> Unit Circle Quiz	<b>Assessment :</b> <i>Formative:</i> Check homework          <i>Summative:</i>	<b>Assessment :</b> <i>Formative:</i>          <i>Summative:</i> Cumulative quiz
<b>Homework:</b> AP prep	<b>Homework:</b> AP prep	<b>Homework:</b> AP prep	<b>Homework:</b> AP prep	<b>Homework:</b> AP prep

Resources and Reflective Notes:

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