<table>
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<tr>
<th>Month</th>
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| August    | Chapter 1 Prerequisites for Calculus | - Functions and graphs  
- Exponential functions  
- Functions & logarithms  
- Trig functions  
- Chapter test |
| September | Chapter 2 Limits and Continuity | - Rates of change and limits  
- Limits involving infinity  
- Continuity  
- Tangent lines  
- Chapter test |
| October   | Chapter 3 Derivatives         | - Derivative of a function  
- Differentiability  
- Rules for differentiation  
- Velocity and acceleration  
- Test on lessons 3.1.3.4. |
| November  | Chapter 3 Derivatives         | - Derivatives of trig functions  
- Chain rule  
- Implicit differentiation  
- Derivatives of trig functions  
- Derivatives of exponential & log functions  
- Test on lessons 3.5.3.9 |
| December  | Chapter 4 Applications of derivatives | - Extreme values of functions  
- Mean value theorem  
- $f'(x)$ and $f''(x)$ and the graph of $f(x)$  
- Modeling and optimization  
- Linearization  
- Related rates L'Hopital's Rule  
- Chapter test |
| January   | Chapter 5 The definite Integral | - Estimating with finite sums  
- Definite Integrals  
- Antiderivatives  
- Fundamental theorem of calculus  
- Trapezoidal rule  
- Chapter Test |
| February  | Chapter 6 Differential Equations and Math Modeling | - Slope fields  
- Anti-differentiation by substitution  
- Anti-differentiation by parts  
- Exponential growth and decay  
- Population growth  
- Chapter Test |
| March     | Chapter 7 Applications of Definite Integrals | - Integral as Net Change  
- Areas in the plane  
- Volumes  
- Test on lessons 7.1.7.3  
- Begin review for AP Exam |
| April/May | Review for Exam AP Exam       | - Review for Exam AP Exam |
| Ongoing Concepts |                          | - Calculator use  
- Reading comprehension in context  
- Math vocabulary  
- Communicating mathematically |