AP Calculus AB

**Chapter 2 Learning Goals**

***Limits and Continuity***

*Lesson 2-0: Introduction to Limits*

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| * I can develop an intuitive understating of that nature of limits.
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| * I can understand both the power and peril of investigating limits by successively closer evaluation.
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*Lesson 2-1: Rates of Change and Limits*

* I can calculate average and instantaneous speeds.
* I can define and calculate limits for function values and apply the properties of limits.
* I can use the Sandwich Theorem to find certain limits indirectly.

*Lesson 2-2: Limits Involving Infinity*

* I can find and verify end behavior models for various functions.
* I can calculate limits as  and identify vertical and horizontal asymptotes.

*Lesson 2-3: Continuity*

* I can identify the intervals upon which a given function is continuous and understand the meaning of a continuous function.
* I can apply the Intermediate Value Theorem (IVT) and the properties of algebraic combinations and composites of continuous functions.

*Lesson 2-4: Rates of Change, Tangent Lines, and Sensitivity*

* I can calculate average rates of change ($A\_{RoC})$ and instantaneous rates of change ($I\_{RoC}).$
* I can find equations of tangent lines and normal lines to a curve at a given point.