



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 12 COURSE NAME: AP Calculus
MEASUREMENT TOPIC: Apply Derivatives to Contextual Problems

4

In addition to Score 3, the student makes in-depth inferences and applications.

3

The student will:

- **Determine limits of functions that result in indeterminate forms.**
- **Approximate a value on a curve using a tangent line equation.**
- **Solve real-world problems involving rates of change.**
 - **Non-Motion/Motion (including, but not limited to straight-line motion)**
 - **Related Rates**

2

The student will:

- **Represent related rates problems using implicit differentiation.**
- **Connect position, velocity, and acceleration with derivatives.**

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: