



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 12 COURSE NAME: AP Calculus
MEASUREMENT TOPIC: Apply Fundamental Properties of Differentiation

4

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

3

The student will:

- Calculate the derivative of complex functions (e.g. $\tan x$, $\cot x$, $\sec x$, $\csc x$).
- Calculate derivatives using the Product Rule and Quotient Rule.
- Calculate the derivative of familiar functions (e.g. $\cos x$, $\sin x$, e^x , $\ln x$).

2

The student will:

- Apply derivative rules to simplify differentiation.
- Explain the relationship between differentiability and continuity.
- Determine rates of change.

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: