

Calculus Math Rubric

Suitable for 10th to 12th Grade

4	3	2	1
Demonstrates a thorough understanding of the relationship between the derivative of a function and the key features of its graph	Demonstrates an understanding of the relationship between the derivative of a function and the key features of its graph	Demonstrates a partial understanding of the relationship between the derivative of a function and the key features of its graph	Demonstrates some basic understanding of the relationship between the derivative of a function and the key features of its graph.
Very capably and independently determines and interprets rates of change of functions drawn from a variety of sources	Independently determines and interprets rates of change of functions drawn from a variety of sources	With some assistance, determines and interprets rates of change of functions drawn from a variety of sources	Requires a great deal of assistance to determine and interpret rates of change of functions drawn from a variety of sources
Independently and with a thorough understanding analyzes functions using differential calculus	Independently analyzes functions using differential calculus	Beginning to analyze functions using differential calculus, regular review is needed	Exhibits limited understanding when analyzing functions using differential calculus. Additional review and support is needed
Independently and with a thorough understanding sketches graphs of polynomial, rational and exponential functions	Independently sketches graphs of polynomial, rational and exponential functions	With some ongoing support and intervention, sketches graphs of polynomial, rational and exponential functions	Sketches graphs of polynomial, rational and exponential functions with frequent errors and omissions. Weak understanding.