

Common Core State Standards for Mathematics		
Domain: Linear, Quadratic, and Exponential Models		
Interpret Expressions for Functions (F-LE.5)		
High School		
Score 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard. The student will:	Example Activities
	3.5 In addition to score 3.0 performance, in-depth inferences and applications with partial success.	
Score 3.0	<p>The student will:</p> <ul style="list-style-type: none"> interpret the parameters in a linear or exponential function in terms of a context (F-LE.5) <p>The student exhibits no major errors or omissions.</p>	<p>Given a list of ordered pairs on a line, students determine the slope and y-intercept of the line.</p> <p>Given a list of ordered pairs for an exponential function students determine a and b for $y=ab^x$.</p> <p>Given a list of temperatures in Fahrenheit and Celsius, students determine the parameters needed for the matching linear function.</p> <p>Given a table of values consisting of number of years and value of the investment, students determine the parameters of the exponential function needed for the matching exponential function.</p>
	2.5 No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content	
Score 2.0	<p>There are no major errors or omissions regarding the simpler details and processes as the student will:</p> <ul style="list-style-type: none"> recognize or recall specific vocabulary such as: <ul style="list-style-type: none"> perform basic processes, such as: <ul style="list-style-type: none"> recognize or recall the parameters of linear and exponential functions <p>However, the student exhibits major errors or omissions regarding the more complex ideas and processes.</p>	<p>Use Illuminations “Function Matching” to explore parameters and how they affect the graphs.</p> <p>http://illuminations.nctm.org/ActivityDetail.aspx?ID=215</p>
	1.5 Partial knowledge of the 2.0 content but major errors or omissions regarding the 3.0 content	
Score 1.0	With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.	
	0.5 With help, a partial understanding of the 2.0 content but not the 3.0 content	
Score 0.0	Even with help, no understanding or skill demonstrated.	