

Video Title	Grade Level	Domain (Topic)	Cluster	Standard
Exponential Growth	HS - Functions	Interpreting Functions	Analyze functions using different representations	CCSS.MATH.CONTENT.HSF.IF.C.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.
				CCSS.MATH.CONTENT.HSF.IF.C.7.E Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.
	HS - Functions	Interpreting Functions	Analyze functions using different representations	CCSS.MATH.CONTENT.HSF.IF.C.8 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.
				CCSS.MATH.CONTENT.HSF.IF.C.8.B interpret expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02)t$, $y = (0.97)t$, $y = (1.01)12t$, $y = (1.2)t/10$, and classify them as representing exponential growth or decay.
	HS - Functions	Linear, Quadratic, and Exponential Models	Construct and compare linear, quadratic, and exponential models and solve problems	CCSS.MATH.CONTENT.HSF.LE.A.1 Distinguish between situations that can be modeled with linear functions and with exponential functions.
				CCSS.MATH.CONTENT.HSF.LE.A.1.C Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.
	HS - Functions	Linear, Quadratic, and Exponential Models	Construct and compare linear, quadratic, and exponential models and solve problems	CCSS.MATH.CONTENT.HSF.LE.A.2 Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).
HS - Functions	Linear, Quadratic, and Exponential Models	Interpret expressions for functions in terms of the situation they model	CCSS.MATH.CONTENT.HSF.LE.B.5 Interpret the parameters in a linear or exponential function in terms of a context.	