OCS Math 1 Priority Standards

NC.M1.A-SSE.1	Interpret expressions that represent a quantity in terms of its context. a. Identify and interpret parts of a linear, exponential, or quadratic expression, including
	a. Identify and interpret parts of a linear, exponential, or quadratic expression, including
,	terms, factors, coefficients, and exponents.
	b. Interpret a linear, exponential, or quadratic expression made of multiple parts as a
	combination of entities to give meaning to an expression.
NC.M1.A-CED.1	Create equations and inequalities in one variable that represent linear, exponential, and
	quadratic relationships and use them to solve problems.
NC.M1.A-CED.2	Create and graph equations in two variables to represent linear, exponential, and quadratic
	relationships between quantities.
NC.M1.A-REI.5	Explain why replacing one equation in a system of linear equations by the sum of that equation
	and a multiple of the other produces a system with the same solutions.
NC.M1.A-REI.10	Understand that the graph of a two variable equation represents the set of all solutions to the
	equation.
	FUNCTIONS
NC.M1.F-IF.4	Interpret key features of graphs, tables, and verbal descriptions in context to describe functions
	that arise in applications relating two quantities, including: intercepts; intervals where the
	function is increasing, decreasing, positive, or negative; and maximums and minimums.
NC.M1.F-IF.7	Analyze linear, exponential, and quadratic functions by generating different representations, by
	hand in simple cases and using technology for more complicated cases, to show key features,
	including: domain and range; rate of change; intercepts; intervals where the function is
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NC.M1.F-IF.9	
NC.M1.G-GPE.4	
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NC.M1.G-GPE.5	
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NC.WII.G-GPE.6	
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NC.WIT.S-ID.6	· · · · · · · · · · · · · · · · · · ·
1	b. Assess the fit of a linear function by analyzing residuals.
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	c. Fit a function to exponential data using technology. Use the fitted function to solve
NC.M1.F-IF.9 NC.M1.G-GPE.4 NC.M1.G-GPE.5 NC.M1.G-GPE.6 NC.M1.S-ID.3 NC.M1.S-ID.6	increasing, decreasing, positive, or negative; maximums and minimums; and end behavior. Compare key features of two functions (linear, quadratic, or exponential) each with a different representation (symbolically, graphically, numerically in tables, or by verbal descriptions). GEOMETRY Use coordinates to solve geometric problems involving polygons algebraically Use coordinates to compute perimeters of polygons and areas of triangles and rectangles. Use coordinates to verify algebraically that a given set of points produces a particular type of triangle or quadrilateral. Use coordinates to prove the slope criteria for parallel and perpendicular lines and use them to solve problems. Determine if two lines are parallel, perpendicular, or neither. Find the equation of a line parallel or perpendicular to a given line that passes through a given point. Use coordinates to find the midpoint or endpoint of a line segment. STATISTICS & PROBABILTY Examine the effects of extreme data points (outliers) on shape, center, and/or spread. Represent data on two quantitative variables on a scatter plot and describe how the variables are related. a. Fit a least squares regression line to linear data using technology. Use the fitted function to solve problems.