Course: Algebra I

Quarter 3: Zanesville City

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CLUSTER	STANDARD
Solve systems of equations. A-REI.5-7	A-REI.5 Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions. A-REI.6 Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.
Represent and solve equations and inequalities graphically. A-REI.10-12	A-REI.12 Graph the solutions to a linear inequality in two variables as a half-plane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.
Write expressions in equivalent forms to solve problems. A-SSE.3a, 3b, 3c	A-SSE.3a Factor a quadratic expression to reveal the zeros of the function it defines.
	A-SSE.3b Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines.
	A-SSE.3c Use the properties of exponents to transform expressions for exponential functions.
Summarize, represent and interpret data on a single count or measurement variable. S-ID.1-3	S-ID.1 Represent data with plots on the real number line (dot plots, histograms, and box plots).
	S-ID.2 Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.
	S-ID.3 Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).
Summarize, represent and interpret data on	S-ID.5 Summarize categorical data for two categories
two categorical and quantitative variables.	in two-way frequency tables. Interpret relative
S- <u>ID</u> .5, 6a, 6b, 6c	frequencies in the context of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in the data
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	S-ID.6a Fit a function to the data; use functions fitted to data to solve problems in the context of the data. Uses given functions or choose a function suggested by the context. Emphasize linear, quadratic, and exponential models.
	S-ID.6b Informally assess the fit of a function by plotting and analyzing residuals.
	S-ID.6c Fit a linear function for a scatter plot that suggests a linear association.
<u>Interpret linear models</u> . S- <u>ID</u> .7-9	S-ID.7 Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.
	S-ID.8 Compute (using technology) and interpret the correlation coefficient of a linear fit.
	S-ID.9 Distinguish between correlation and causation.

