Mathematics

Grade 6

SAS - Curriculum Framework
(PA Core: Mathematics / Measurement, Data and Probability / 6th Grade)

Long Term Transfer Goals

1. Make sense of and persevere in solving complex and novel mathematical problems.
2. Use effective mathematical reasoning to construct viable arguments and critique the reasoning of others.
3. Communicate precisely when making mathematical statements and express answers with a degree of precision appropriate for the context of the problem/situation.
4. Apply mathematical knowledge to analyze and model situations/relationships using multiple representations and appropriate tools in order to make decisions, solve problems, and draw conclusions.
5. Make use of structure and repeated reasoning to gain a mathematical perspective and formulate generalized problem solving strategies.

Big Idea

o Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools.

Essential Question

▪ What does it mean to estimate or analyze numerical quantities?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Data and Distributions	Display data in dot plots, histograms and box-and-whisker plots.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.4.6.B.1	M06.D-S.1.1.1, M06.D-S.1.1.2, M06.D-S.1.1.3, M06.D-S.1.1.4
Data and Distributions	Determine quantitative measures of center and variability.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.4.6.B.1	M06.D-S.1.1.1, M06.D-S.1.1.2, M06.D-S.1.1.3, M06.D-S.1.1.4
Data and Distributions	Choose the appropriate measure	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon	CC.2.4.6.B.1	M06.D-S.1.1.1, M06.D-S.1.1.2,

	of center and variability for a set of data.	Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.D-S.1.1.3, M06.D-S.1.1.4

Essential Question

- What makes a tool and/or strategy appropriate for a given task?

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Essential Question

- How can data be organized and represented to provide insight into the relationship between quantities?

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Concepts	Competencies	Vocabulary	Standards	Eligible Content
		deviation		
Data and Distributions	Choose the appropriate measure of center and variability for a set of data.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.4.6.B.1	M06.D-S.1.1.1, M06.D-S.1.1.2, M06.D-S.1.1.3, M06.D-S.1.1.4

Essential Question

- How does the type of data influence the choice of display?

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Essential Question

- How can probability and data analysis be used to make predictions?

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Big Idea

- o Mathematical relations and functions can be modeled through multiple representations and analyzed to raise and answer questions.

    Essential Question

    - What does it mean to estimate or analyze numerical quantities?

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Big Idea

o Data can be modeled and used to make inferences.

Essential Question

▪ What does it mean to estimate or analyze numerical quantities?

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Essential Question

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