

Loyalsock Township School District

Benchmarks: What Students Should Know and Be Able to Do

SAS - Curriculum Framework (PA Core: Mathematics / Algebraic Concepts / 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

- Mathematical relationships among numbers can be represented, compared, and communicated.

Essential Question

- How is mathematics used to quantify, compare, represent, and model numbers?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Expressions	Write, identify and evaluate numerical expressions involving exponents.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Write, read and evaluate algebraic expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Apply the properties of operations to generate equivalent expressions.	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	CC.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5

		Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

Essential Question

- How are relationships represented mathematically?

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Algebraic Expressions	Write, identify and evaluate numerical expressions involving exponents.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
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Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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	CC.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

		deviation		
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

Essential Question

- How can mathematics support effective communication?

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	problems.	Common Multiple Mean Mean absolute deviation		M06.B-E.3.1.2
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Essential Question

- How can recognizing repetition or regularity assist in solving problems more efficiently?

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Essential Question

- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

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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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Big Idea

- Mathematical relationships can be represented as expressions, equations, and inequalities in mathematical situations.

Essential Question

- How is mathematics used to quantify, compare, represent, and model numbers?

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Essential Question

- How can mathematics support effective communication?

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Algebraic Expressions	Write, read and evaluate algebraic expressions.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot	CC.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3,

		plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Apply the properties of operations to generate equivalent expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
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Essential Question

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Algebraic Expressions	Apply the properties of operations to generate equivalent expressions.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor	CC.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4,

		Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.B-E.1.1.5
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Essential Question

- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

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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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Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

Big Idea

- Patterns exhibit relationships that can be extended, described, and generalized.
 - **Essential Question**
 - How is mathematics used to quantify, compare, represent, and model numbers?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Expressions	Write, identify and evaluate numerical expressions involving exponents.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Write, read and evaluate algebraic expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Apply the properties of operations to generate equivalent expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5

Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**
- How are relationships represented mathematically?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Expressions	Write, identify and evaluate numerical expressions involving exponents.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Write, read and evaluate algebraic expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Apply the properties of operations to generate equivalent expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic	Solve and interpret	Absolute value Algebraic expressions Box and	CC.2.2.6.B.2	M06.B-E.2.1.1,

Equations	one variable equations or inequalities in real world and mathematical problems.	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		M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
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- **Essential Question**
- How can mathematics support effective communication?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Expressions	Write, identify and evaluate numerical expressions involving exponents.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Write, read and evaluate algebraic expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Apply the properties of operations to generate equivalent expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**
- How can recognizing repetition or regularity assist in solving problems more efficiently?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Expressions	Write, identify and evaluate numerical expressions involving exponents.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Write, read and evaluate algebraic expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Expressions	Apply the properties of operations to generate equivalent expressions.	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.2.2.6.B.1	M06.B-E.1.1.1, M06.B-E.1.1.2, M06.B-E.1.1.3, M06.B-E.1.1.4, M06.B-E.1.1.5
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**
- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon	CC.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2,

	relationships between Independent and dependent variables.	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.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

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

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

Big Idea

- Mathematical relations and functions can be modeled through multiple representations and analyzed to raise and answer questions.
 - **Essential Question**
 - How is mathematics used to quantify, compare, represent, and model numbers?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative relationships between Independent and	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	CC.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4,

	dependent variables.	Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**
- How can mathematics support effective communication?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**
- How are relationships represented mathematically?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**
- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**
- How can recognizing repetition or regularity assist in solving problems more efficiently?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2

- **Essential Question**

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

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Algebraic Equations	Represent and analyze quantitative relationships between Independent and dependent variables.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2
Algebraic Equations	Solve and interpret one variable equations or inequalities in real world and mathematical problems.	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.2.2.6.B.2	M06.B-E.2.1.1, M06.B-E.2.1.2, M06.B-E.2.1.3, c or x M06.B-E.2.1.4, M06.B-E.3.1.1, M06.B-E.3.1.2