

MIDDLE-LEVEL CURRICULUM

A SYNERGISTIC SYSTEM



STANDARDS CORRELATION REPORT

Monday, September 24, 2018

STANDARDS FROM

NGA Center/CCSSO | Common Core State Standards | Mathematics (2010)

Grade 6



SUMMARY

This report was prepared using the following information:

STANDARD SETS	TITLE SET
Standards Body: NGA Center/CCSSO	1 Energy — v2.0.0
Document: Common Core State Standards	2 Rocketry — v2.0.0
Subject: Mathematics	3 Solar System — v2.0.0
Version: 2010	4 Adaptations and Survival — v2.0.0
Grades: Grade 6	5 Crime Lab — v2.0.0
	6 Under the Microscope — v2.0.0
	7 Weather and Water — v2.0.0
	8 Limited Resources — v2.0.0
	9 Motion and Force — v2.0.0
	10 Engineering Structures — v2.0.0
	11 Technology and Design — v2.0.0
	12 Scientific Discovery — v2.0.0

Please Note

In this report, two categories of curriculum statements are listed: standards and benchmarks. Standards should be read as the “parents,” with benchmarks being the “children.” Only the lowest level of statement is considered a benchmark (child). For example, if there are three levels of statements, the top two levels are listed as standards, with the third level being the benchmark. Depending on the specific report being viewed, the accounting of the standards and benchmarks will vary.

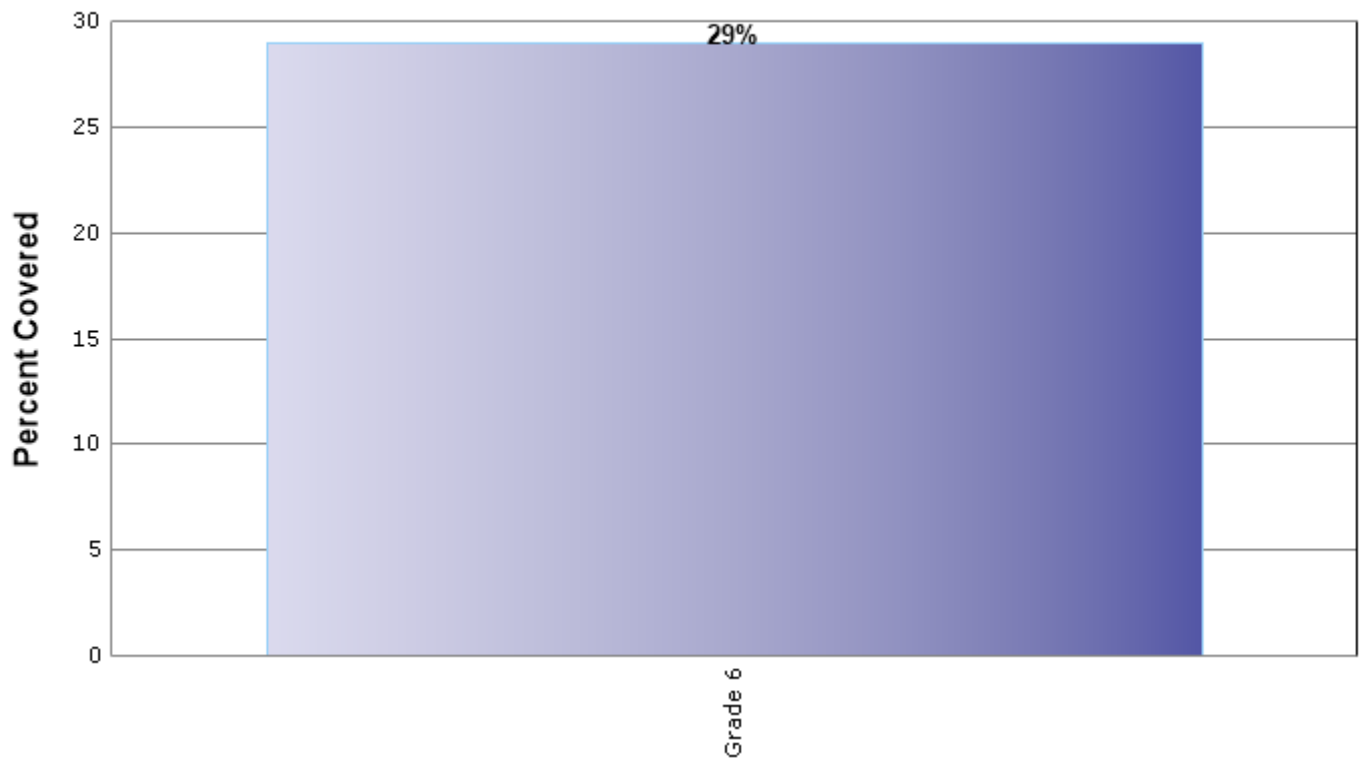
STANDARDS/BENCHMARKS ADDRESSED SUMMARY

How to Interpret:

When reviewing the “Standards/Benchmarks Addressed Summary,” all curriculum statements from your organization are considered in the accounting of items addressed. Under this reporting structure, if a child statement (benchmark) is considered "addressed," its parent statement (standard) is also considered addressed. In cases where there are three or more levels of statements (i.e. grandparent; parent; child), all levels above the lowest level that is addressed are also considered addressed. Reporting from this analysis considers each statement as being of equal value.

- Grade 6 standards covered: 18 of 62 (29%)

Standards/Benchmarks Addressed



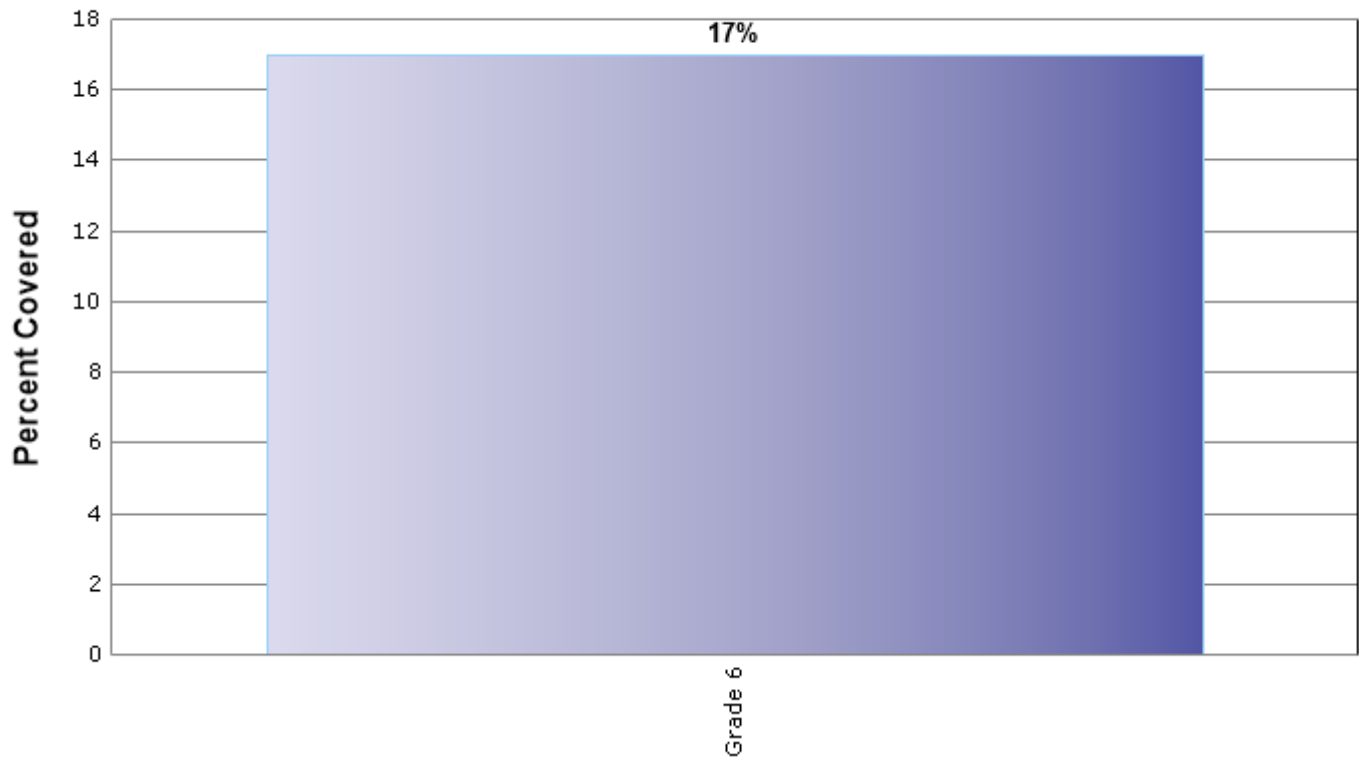
BENCHMARKS ADDRESSED SUMMARY

How to Interpret:

Benchmarks are considered the statements at the lowest level of the document. When reviewing the “Benchmarks Addressed Summary,” only the curriculum statements at the lowest level are being reported.

- Grade 6 benchmarks covered: 7 of 42 (17%)

Benchmarks Addressed



COVERAGE REPORT ORGANIZED BY STANDARD/BENCHMARK

This section of the report lists each curriculum statement in the set chosen for this report and the titles that address them. Statements that are colored gray are not addressed by any title in the title set chosen for this report.

GRADE 6

- Grade 6 standards addressed: 18 of 62 (29%)
- Grade 6 benchmarks addressed: 7 of 42 (17%)

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Content.6.RP	Ratios and Proportional Relationships
CCSS.Math.Content.6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems. <ul style="list-style-type: none"> • Weather and Water 2.0.0
CCSS.Math.Content.6.RP.A.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
CCSS.Math.Content.6.RP.A.2	Understand the concept of a unit rate a/b associated with a ratio $a:b$ with b is not equal to 0, and use rate language in the context of a ratio relationship.
CCSS.Math.Content.6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. <ul style="list-style-type: none"> • Weather and Water 2.0.0 • Crime Lab 2.0.0
CCSS.Math.Content.6.RP.A.3.a	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.
CCSS.Math.Content.6.RP.A.3.b	Solve unit rate problems including those involving unit pricing and constant speed.
CCSS.Math.Content.6.RP.A.3.c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.

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	<ul style="list-style-type: none"> • Weather and Water 2.0.0
CCSS.Math.Cont ent.6.RP.A.3.d	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
CCSS.Math.Cont ent.6.NS	The Number System
CCSS.Math.Cont ent.6.NS.A	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
CCSS.Math.Cont ent.6.NS.A.1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
CCSS.Math.Cont ent.6.NS.B	Compute fluently with multi-digit numbers and find common factors and multiples.
CCSS.Math.Cont ent.6.NS.B.2	Fluently divide multi-digit numbers using the standard algorithm.
CCSS.Math.Cont ent.6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.
CCSS.Math.Cont ent.6.NS.B.4	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.
CCSS.Math.Cont ent.6.NS.C	Apply and extend previous understandings of numbers to the system of rational numbers. <ul style="list-style-type: none"> • Rocketry 2.0.0 • Energy 2.0.0
CCSS.Math.Cont ent.6.NS.C.5	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation. <ul style="list-style-type: none"> • Energy 2.0.0

Grade 6
NGA Center/CCSSO | Common Core State Standards | Mathematics (2010)

CCSS.Math.Cont ent.6.NS.C.6	<p>Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.</p> <ul style="list-style-type: none"> • Energy 2.0.0 • Rocketry 2.0.0
CCSS.Math.Cont ent.6.NS.C.6.a	<p>Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.</p>
CCSS.Math.Cont ent.6.NS.C.6.b	<p>Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.</p> <ul style="list-style-type: none"> • Energy 2.0.0
CCSS.Math.Cont ent.6.NS.C.6.c	<p>Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p> <ul style="list-style-type: none"> • Energy 2.0.0 • Rocketry 2.0.0
CCSS.Math.Cont ent.6.NS.C.7	<p>Understand ordering and absolute value of rational numbers.</p>
CCSS.Math.Cont ent.6.NS.C.7.a	<p>Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.</p>
CCSS.Math.Cont ent.6.NS.C.7.b	<p>Write, interpret, and explain statements of order for rational numbers in real-world contexts.</p>
CCSS.Math.Cont ent.6.NS.C.7.c	<p>Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.</p>
CCSS.Math.Cont ent.6.NS.C.7.d	<p>Distinguish comparisons of absolute value from statements about order.</p>
CCSS.Math.Cont ent.6.NS.C.8	<p>Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.</p>

Grade 6
NGA Center/CCSSO | Common Core State Standards | Mathematics (2010)

CCSS.Math.Content.6.EE	Expressions and Equations
CCSS.Math.Content.6.EE.A	Apply and extend previous understandings of arithmetic to algebraic expressions.
CCSS.Math.Content.6.EE.A.1	Write and evaluate numerical expressions involving whole-number exponents.
CCSS.Math.Content.6.EE.A.2	Write, read, and evaluate expressions in which letters stand for numbers.
CCSS.Math.Content.6.EE.A.2.a	Write expressions that record operations with numbers and with letters standing for numbers.
CCSS.Math.Content.6.EE.A.2.b	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.
CCSS.Math.Content.6.EE.A.2.c	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).
CCSS.Math.Content.6.EE.A.3	Apply the properties of operations to generate equivalent expressions.
CCSS.Math.Content.6.EE.A.4	Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).
CCSS.Math.Content.6.EE.B	Reason about and solve one-variable equations and inequalities.
CCSS.Math.Content.6.EE.B.5	Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

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CCSS.Math.Content.6.EE.B.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
CCSS.Math.Content.6.EE.B.7	Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p, q and x are all nonnegative rational numbers.
CCSS.Math.Content.6.EE.B.8	An error has occurred while processing HtmlTextBox 'htmlTextBox1': Name cannot begin with the ' ' character, hexadecimal value 0x20. Line 1, position 51.
CCSS.Math.Content.6.EE.C	Represent and analyze quantitative relationships between dependent and independent variables.
CCSS.Math.Content.6.EE.C.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.
CCSS.Math.Content.6.G	Geometry
CCSS.Math.Content.6.G.A	Solve real-world and mathematical problems involving area, surface area, and volume. <ul style="list-style-type: none"> • Energy 2.0.0 • Weather and Water 2.0.0 • Solar System 2.0.0 • Technology and Design 2.0.0
CCSS.Math.Content.6.G.A.1	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.

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CCSS.Math.Content.6.G.A.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l w h$ and $V = b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.
CCSS.Math.Content.6.G.A.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems. <ul style="list-style-type: none"> • Technology and Design 2.0.0
CCSS.Math.Content.6.G.A.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
CCSS.Math.Content.6.SP	Statistics and Probability
CCSS.Math.Content.6.SP.A	Develop understanding of statistical variability.
CCSS.Math.Content.6.SP.A.1	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
CCSS.Math.Content.6.SP.A.2	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.
CCSS.Math.Content.6.SP.A.3	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.
CCSS.Math.Content.6.SP.B	Summarize and describe distributions.

Grade 6
NGA Center/CCSSO | Common Core State Standards | Mathematics (2010)

	<ul style="list-style-type: none"> • Energy 2.0.0 • Rocketry 2.0.0 • Solar System 2.0.0 • Crime Lab 2.0.0 • Under the Microscope 2.0.0 • Weather and Water 2.0.0 • Technology and Design 2.0.0 • Scientific Discovery 2.0.0 • Motion and Force 2.0.0 • Limited Resources 2.0.0
CCSS.Math.Content.6.SP.B.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
CCSS.Math.Content.6.SP.B.5	<p>Summarize numerical data sets in relation to their context, such as by:</p> <ul style="list-style-type: none"> • Rocketry 2.0.0 • Energy 2.0.0 • Weather and Water 2.0.0 • Under the Microscope 2.0.0 • Crime Lab 2.0.0 • Solar System 2.0.0 • Limited Resources 2.0.0 • Motion and Force 2.0.0 • Scientific Discovery 2.0.0 • Technology and Design 2.0.0
CCSS.Math.Content.6.SP.B.5.a	<p>Reporting the number of observations.</p> <ul style="list-style-type: none"> • Energy 2.0.0 • Rocketry 2.0.0 • Solar System 2.0.0 • Crime Lab 2.0.0 • Under the Microscope 2.0.0 • Weather and Water 2.0.0 • Technology and Design 2.0.0 • Scientific Discovery 2.0.0 • Motion and Force 2.0.0 • Limited Resources 2.0.0
CCSS.Math.Content.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

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	<ul style="list-style-type: none"> • Rocketry 2.0.0 • Energy 2.0.0 • Weather and Water 2.0.0 • Under the Microscope 2.0.0 • Crime Lab 2.0.0 • Solar System 2.0.0 • Limited Resources 2.0.0 • Motion and Force 2.0.0 • Scientific Discovery 2.0.0 • Technology and Design 2.0.0
CCSS.Math.Content.6.SP.B.5.c	Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.
CCSS.Math.Content.6.SP.B.5.d	Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.

COVERAGE REPORT ORGANIZED BY PRODUCT TITLE

This section of the report lists each curriculum statement in the set chosen for this report and the titles that address it. Statements that are colored gray are not addressed by any title in the title set chosen for this report.

ENERGY

- Grade 6 standards addressed: 13 of 62 :: 21% (2 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Cont ent.6.NS.C	Apply and extend previous understandings of numbers to the system of rational numbers.
* CCSS.Math.Cont ent.6.NS.C.5	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.
CCSS.Math.Cont ent.6.NS.C.6	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.
* CCSS.Math.Cont ent.6.NS.C.6.b	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.
CCSS.Math.Cont ent.6.NS.C.6.c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.
CCSS.Math.Cont ent.6.G.A	Solve real-world and mathematical problems involving area, surface area, and volume.
CCSS.Math.Cont ent.6.SP.B	Summarize and describe distributions.
CCSS.Math.Cont ent.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:

Grade 6
NGA Center/CCSSO | Common Core State Standards | Mathematics (2010)

CCSS.Math.Content.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Content.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

ROCKETRY

- Grade 6 standards addressed: 9 of 62 :: 15% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Cont ent.6.NS.C	Apply and extend previous understandings of numbers to the system of rational numbers.
CCSS.Math.Cont ent.6.NS.C.6	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.
CCSS.Math.Cont ent.6.NS.C.6.c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.
CCSS.Math.Cont ent.6.SP.B	Summarize and describe distributions.
CCSS.Math.Cont ent.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Cont ent.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Cont ent.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

SOLAR SYSTEM

- Grade 6 standards addressed: 7 of 62 :: 11% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Cont ent.6.G.A	Solve real-world and mathematical problems involving area, surface area, and volume.
CCSS.Math.Cont ent.6.SP.B	Summarize and describe distributions.
CCSS.Math.Cont ent.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Cont ent.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Cont ent.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

ADAPTATIONS AND SURVIVAL

- Grade 6 standards addressed: 0 of 62 :: 0% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

No correlations are available for this product using the selected report criteria.

CRIME LAB

- Grade 6 standards addressed: 8 of 62 :: 13% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Cont ent.6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
CCSS.Math.Cont ent.6.SP.B	Summarize and describe distributions.
CCSS.Math.Cont ent.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Cont ent.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Cont ent.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

UNDER THE MICROSCOPE

- Grade 6 standards addressed: 5 of 62 :: 8% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Content.6.SP.B	Summarize and describe distributions.
CCSS.Math.Content.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Content.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Content.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

WEATHER AND WATER

- Grade 6 standards addressed: 11 of 62 :: 18% (1 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
* CCSS.Math.Cont ent.6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems.
CCSS.Math.Cont ent.6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
* CCSS.Math.Cont ent.6.RP.A.3.c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.
CCSS.Math.Cont ent.6.G.A	Solve real-world and mathematical problems involving area, surface area, and volume.
CCSS.Math.Cont ent.6.SP.B	Summarize and describe distributions.
CCSS.Math.Cont ent.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Cont ent.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Cont ent.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

LIMITED RESOURCES

- Grade 6 standards addressed: 5 of 62 :: 8% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Content.6.SP.B	Summarize and describe distributions.
CCSS.Math.Content.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Content.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Content.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

MOTION AND FORCE

- Grade 6 standards addressed: 5 of 62 :: 8% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Content.6.SP.B	Summarize and describe distributions.
CCSS.Math.Content.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Content.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Content.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

ENGINEERING STRUCTURES

- Grade 6 standards addressed: 0 of 62 :: 0% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

No correlations are available for this product using the selected report criteria.

TECHNOLOGY AND DESIGN

- Grade 6 standards addressed: 8 of 62 :: 13% (1 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Cont ent.6.G.A	Solve real-world and mathematical problems involving area, surface area, and volume.
* CCSS.Math.Cont ent.6.G.A.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.
CCSS.Math.Cont ent.6.SP.B	Summarize and describe distributions.
CCSS.Math.Cont ent.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Cont ent.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Cont ent.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

SCIENTIFIC DISCOVERY

- Grade 6 standards addressed: 5 of 62 :: 8% (0 unique)

* - Indicates a standard that is uniquely covered by this title in the title set chosen for this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Content.6.SP.B	Summarize and describe distributions.
CCSS.Math.Content.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
CCSS.Math.Content.6.SP.B.5.a	Reporting the number of observations.
CCSS.Math.Content.6.SP.B.5.b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

STANDARDS/BENCHMARKS NOT ADDRESSED SUMMARY

This section of the report shows all standards that are not addressed by the set of titles used to create this report.

GRADE 6

Grade 6 NGA Center/CCSSO Common Core State Standards Mathematics (2010)	
CCSS.Math.Cont ent.6.RP.A.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
CCSS.Math.Cont ent.6.RP.A.2	Understand the concept of a unit rate a/b associated with a ratio $a:b$ with b is not equal to 0, and use rate language in the context of a ratio relationship.
CCSS.Math.Cont ent.6.RP.A.3.a	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.
CCSS.Math.Cont ent.6.RP.A.3.b	Solve unit rate problems including those involving unit pricing and constant speed.
CCSS.Math.Cont ent.6.RP.A.3.d	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
CCSS.Math.Cont ent.6.NS.A	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
CCSS.Math.Cont ent.6.NS.A.1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
CCSS.Math.Cont ent.6.NS.B	Compute fluently with multi-digit numbers and find common factors and multiples.
CCSS.Math.Cont ent.6.NS.B.2	Fluently divide multi-digit numbers using the standard algorithm.
CCSS.Math.Cont ent.6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.
CCSS.Math.Cont ent.6.NS.B.4	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.

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CCSS.Math.Cont ent.6.NS.C.6.a	Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.
CCSS.Math.Cont ent.6.NS.C.7	Understand ordering and absolute value of rational numbers.
CCSS.Math.Cont ent.6.NS.C.7.a	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.
CCSS.Math.Cont ent.6.NS.C.7.b	Write, interpret, and explain statements of order for rational numbers in real-world contexts.
CCSS.Math.Cont ent.6.NS.C.7.c	Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.
CCSS.Math.Cont ent.6.NS.C.7.d	Distinguish comparisons of absolute value from statements about order.
CCSS.Math.Cont ent.6.NS.C.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.
CCSS.Math.Cont ent.6.EE	Expressions and Equations
CCSS.Math.Cont ent.6.EE.A	Apply and extend previous understandings of arithmetic to algebraic expressions.
CCSS.Math.Cont ent.6.EE.A.1	Write and evaluate numerical expressions involving whole-number exponents.
CCSS.Math.Cont ent.6.EE.A.2	Write, read, and evaluate expressions in which letters stand for numbers.
CCSS.Math.Cont ent.6.EE.A.2.a	Write expressions that record operations with numbers and with letters standing for numbers.
CCSS.Math.Cont ent.6.EE.A.2.b	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.
CCSS.Math.Cont ent.6.EE.A.2.c	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).

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CCSS.Math.Content.6.EE.A.3	Apply the properties of operations to generate equivalent expressions.
CCSS.Math.Content.6.EE.A.4	Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).
CCSS.Math.Content.6.EE.B	Reason about and solve one-variable equations and inequalities.
CCSS.Math.Content.6.EE.B.5	Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.
CCSS.Math.Content.6.EE.B.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
CCSS.Math.Content.6.EE.B.7	Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p, q and x are all nonnegative rational numbers.
CCSS.Math.Content.6.EE.B.8	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.
CCSS.Math.Content.6.EE.C	Represent and analyze quantitative relationships between dependent and independent variables.
CCSS.Math.Content.6.EE.C.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.
CCSS.Math.Content.6.G.A.1	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.
CCSS.Math.Content.6.G.A.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.

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CCSS.Math.Cont ent.6.G.A.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
CCSS.Math.Cont ent.6.SP.A	Develop understanding of statistical variability.
CCSS.Math.Cont ent.6.SP.A.1	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
CCSS.Math.Cont ent.6.SP.A.2	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.
CCSS.Math.Cont ent.6.SP.A.3	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.
CCSS.Math.Cont ent.6.SP.B.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
CCSS.Math.Cont ent.6.SP.B.5.c	Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.
CCSS.Math.Cont ent.6.SP.B.5.d	Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.