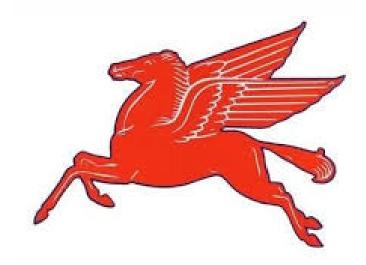
Curriculum Management System

PAULSBORO PUBLIC SCHOOLS



Mathematics - Grade 6

UPDATED 2020-2021

For adoption by all regular education programs as specified and for adoption or adaptation by all Special Education Programs in accordance with Board of Education Policy.

Board Approved: October 2021

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Paulsboro Public Schools

Superintendent, Dr. Roy Dawson, III <u>Board of Education</u>

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Paulsboro Public Schools

Mission Statement

The mission of the Paulsboro School District is to work with students, parents, educators, and community to develop excellence in education while preparing each student to be viable and productive citizens in society. Our goal is to develop the unique potential of the whole student by creating a challenging and diverse learning climate that prepares students for the 21st Century and is rich in tradition and pride.

(#) GRADE PACING CHART (2020-2021)

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ΤΟΡΙϹ	# OF DAYS	DATES	COMMENTS
1 – Algebra: Understand	12	9/8-9/23	
Numerical and Algebraic			
Expressions			
2- Algebra: Solve Equations and	10	9/24-10/07	
Inequalities			
3- Rational Numbers	7	10/08-10/20	
4- Algebra: Coordinate	7	10/21-10/29	
Geometry			
5- Algebra: Patterns and	8	10/30-11/13	
Equations			
6- Fluently Divide Whole	8	11/16-12/01	
Numbers			
7- Fluently Add, Subtract,	12	12/02-12/17	
Multiply and Divide Decimals			
8- Common Factors and	6	1/04-1/11	
Multiples			
9- Ratio Concepts and	8	1/12-1/22	
Reasoning			
10- Ratio Concepts: Rates	11	1/25-2/10	
11- Ratio Concepts: Percent	9	2/11-2/24	
12- Divide Fractions by	11	2/25-3/12	
Fractions			
13- Solve Area Problems	8	3/15-3/26	
14- Solve Surface Area and	7	3/29-4/14	
Volume Problems			

15- Measures of Center and Variability	6	4/15-4/23	
16- Display and Summarize Data	8	4/26-5/06	

*Depending on state testing, the tentative dates for topics 10-16 may change

DEFINITIONS

NJ Student Learning Standards – Clear and specific benchmarks for students' achievement in various content areas. The standards ensure that each child receives a "thorough and efficient education".

21^{*} Century Life and Careers Standards – These skills that are comprised of the "12 Career Ready Practices" and Standards 9.1 through 9.4. The organization of these standards intends to enable students to make informed decisions that prepare them to engage as active citizens in global society and be prepared for the opportunities of the 21st century workplace.

ELA Companion Standards - Consists of standards for reading and writing in History, Social Studies, Science and Technical subjects. ELA curricula

Gifted and Talented Learners - Students with high-ability who may need more depth and complexity in instruction.

Special Education Learners - Students in need of supports and interventions to improve student achievement

English Language Learners – Students with a native language other than English or who are at varying degrees of English language proficiency.

QUARTER 1 – Big Idea: Expressions and Equations Topic: Algebra-Understand Numerical and Algebraic Expressions Algebra-Solve Equations and Inequalities			
Standards:	G	FOAL	
NJ Student Learning Standards:	SWBAT		
 6.EE.A.1 Write and evaluate numerical expressions involving whole number exponents. 6.EE.A.2a Write expressions that record operations with numbers and with letters standing for numbers. 6.EE.A.2b Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient) view one of more parts of an expression as a single entity. 6.EE.A.2c 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 	expressions • Evaluate addition, subtraction, multip Essential Questions What are expressions and how can they be written and evaluated? What procedures can be used to solve equations and inequalities?	Assessments • Placement Test, print or online • Topic One Assessment, print or online • Topic Two Assessment, print or online	
6.EE.B.5 Understand solving as equation or	Enduring Understanding	Resources	
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 set makes an equation or inequality true.	Topic 1 applies and extends previous understandings of arithmetic and numerical expressions to algebraic expressions. Grade 6 students interpret, evaluate, and write algebraic expressions,	EnVision 2.0 Common Core Grade 6 https://www.savvasrealize.com/community/home Manipulative Set	

 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. 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. 6.EE.B.8 Write an inequality of the form □ > □ or □ < □ to represent a constraint or condition in a real- world or mathematical problem. Recognize that inequalities of the form □ > □ or □ < □ have infinitely many solutions; represent solutions of such inequalities on number line diagrams 21* Century Life and Careers: CRP2. Apply appropriate academic and technical skills CRP4. Communicate clearly and effectively and with reason. CRP6. Demonstrate creativity and innovation. CRP8. Utilize critical thinking to make sense of problems and persevere in solving them CRP11. Use technology to enhance productivity. CRP12. Work productively in teams while using cultural global competence. 	including ones with exponents, related to both mathematical and real world contexts. Topic 2 focuses on solving one-step equations and simple inequalities. Students develop a deep understanding of algebraic equations, and solve them by applying properties of equality and inverse operations. Solutions to inequalities are graphed on a number line.	
Technology Standards: 8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems		

 8.1.5.A.4 Graph data using a spreadsheet, analyze and produce a report that explains the analysis of the data. 8.2.5.C.4 4 Collaborate and brainstorm with peers to solve a problem evaluating all solutions to provide the best results with supporting 	
sketches or models. 8.2.5.D.3 Follow step by step directions to	
assemble a product or solve a problem	
ELA Companion Standards in History, Social Studies, Science & Technical Subjects:	
LA.RH.6-8.4 Determine the meaning of words	
and phrases as they are used in a text, including	
vocabulary specific to domains related to	
history/social studies. LA.RH.6-8.5 Describe how a text presents	
information (e.g., sequentially, comparatively,	
causally)	
LA.RH.6-8.7 Integrate visual information (e.g.,	
in charts, graphs, photographs, videos, or maps)	
with other information in print and digital texts.	
Anchor Standards:	
LA.L.6.4.A Use context (e.g., the overall	
meaning of a sentence or paragraph; a word's	
position or function in a sentence) as a clue to	
the meaning of a word or phrase.	
LA.L.6.6 Acquire and use accurately grade- appropriate general academic and domain-	
specific words and phrases; gather vocabulary	
knowledge when considering a word or phrase	
important to comprehension or expression	
LA.SL.6.1 Engage effectively in a range of	
collaborative discussions (one-on-one, in groups,	

and teacher-led) with diverse partners on grade 6		
topics, texts, and issues, building on others' ideas		
and expressing their own clearly.		
MODIFICATIONS:		
Special Education:		
Students Hands on activity, cooperative learning,		
peer tutoring, extended time, reteach in utilizing		
various methods. Utilize remediation resources		
which include assessment and intervention, in		
planning and instruction.		
English Language Learners:		
Provide hands-on activities and explanations.		
Use reduced text, so that print is not so dense.		
Assess comprehension through demonstration		
or other alternative means (gestures, drawings). Give instructions/directions in writing and orally.		
Use of translation dictionaries to locate words in		
the native language.		
Use English Learners resources such as study		
guides, assessments and a visual glossary.		
At-Risk Students:		
Hands on activities cooperative learning, reteach		
using various methods. Make use of remediation		
lessons and quizzes when appropriate.		
Gifted and Talented Students:		
Utilize Pre-AP Resources such as the pacing,		
assignment and best practices guide.		
	QUARTER 1 -	
	Big Idea: The Number System	
	Topic: Rational Numbers	
	Algebra- Coordinate Geometry	

<u></u>	Algebra-Patterns and Equations		
Standards:		GOAL	
NJ Student Learning Standards: 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 6.NS.C.6 Understand a rational number as a point on the number line. Extend number line	 SWBAT Understand positive and negative integers and how to position them on a number line Compare and order integers Identify and graph point with rational number coordinates on the coordinate plane Use absolute value to find distances between points with the same first coordinate or the same second coordinate on the corresponding plane Identify dependent and independent variables Analyze the relationships between variables by using tables and write equations to represent the relationships Graph linear equations on a coordinate plane 		
9	Essential Questions	Assessments	
 diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. 6.NS.C.6a 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 6.NS.C.6b 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. 6.NS.C.6c 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. 	 What are integers and rational numbers? How can you compare and order rational numbers? How are points graphed as a coordinate plane? How can equations be written? What patterns can be found in tables of values? How are equations that can relate real-world quantities graphed? 	 Topic Three Assessment, print or online Topic Four Assessment, print or online Topic 1-4 Cumulative/ Benchmark Assessment Topic Five Assessment, print or online 	

 6.NS.C.7a Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. 6.NS.C.7b Write, interpret, and explain statements of order for rational numbers in real-world contexts 6.NS.C.7d Distinguish comparisons of absolute value from statements about order. 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. 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 	Enduring Understanding Topics 3 and 4 focus on applying and extending previous understandings of numbers to the system of rational numbers, including developing a deep understanding of integers and other rational numbers and locating points associated with rational number ordered pairs on the coordinate plane.	Resources EnVision 2.0 Common Core Grade 6 https://www.savvasrealize.com/community/home Manipulative Set
the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true 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 21* Century Life and Careers: CRP2. Apply appropriate academic and technical skills	Topic 5 focuses on deep understanding of the relationship between two quantities when one quantity, the dependent variable, changes in relationship to the other quantity, the independent variable. The relationship can be represented in an equation, table or graph.	

 CRP4. Communicate clearly and effectively and with reason. CRP6. Demonstrate creativity and innovation. CRP8. Utilize critical thinking to make sense of problems and persevere in solving them CRP11. Use technology to enhance productivity. CRP12. Work productively in teams while using cultural global competence. 	
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 LA.RH.6-8.7 Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts. Anchor Standards: LA.L.6.4.A Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase. LA.L.6.6 Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression LA.SL.6.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly. 	
 MODIFICATIONS: Special Education: Students Hands on activity, cooperative learning, peer tutoring, extended time, reteach in utilizing various methods. Utilize remediation resources which include assessment and intervention, in planning and instruction. English Language Learners: Provide hands-on activities and explanations. Use reduced text, so that print is not so dense. Assess comprehension through demonstration or other alternative means (gestures, drawings). Give instructions/directions in writing and orally. 	

Use of translation dictionaries to locate words in the native language. Use English Learners resources such as study guides, assessments and a visual glossary. At-Risk Students: Hands on activities cooperative learning, reteach using various methods. Make use of remediation lessons and quizzes when appropriate. Gifted and Talented Students: Utilize Pre-AP Resources such as the pacing, assignment and best practices guide.				
	QUARTER 2 -			
Big Idea: The Number System Topic: Fluently Divide Whole Numbers				
Fluently Add, Subtract, Multiply and Divide Decimals				
	Common Factors and Multiples			
Standards:		GOAL		
NJ Student Learning Standards: 6.NS.B.2 Fluently divide multi-digit numbers	SWBAT			
using the standard algorithm.	• Divide whole numbers			
6.NS.B.3 Fluently add, subtract, multiply, and		on by using subdivision and order of operations		
divide multi-digit decimals using the standard	 Fluently add, subtract, multiply and Find the GCF and LCM of two who 			
algorithm for each operation.	• Find the GCF and LCM of two who	de numbers		
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	Essential Questions	Assessments		
numbers less than or equal to 12. Use the	How are quotients of multi-digit numbers	Topic Six Assessment, print or online		
distributive property to express a sum of two	found?	Topic Seven Assessment, print or		
whole numbers 1-100 with a common factor as a	How one you fly on the old subtract	online		
multiple of a sum of two whole numbers with no	How can you fluently add, subtract, multiply, and divide decimals?	Topic Eight Assessment, print or online		
common factor.	multiply, and tivide decimals.	Topic 1-8 Cumulative/Benchmark		
	How can you find common factors and	Assessment		
	multiples of numbers?			

 6.EE.A.2a Write expressions that record operations with numbers and with letters standing for numbers 6.EE.A.2c 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) 6.EE.B.7 Solve real-world and mathematical	Enduring Understanding	Resources EnVision 2.0 Common Core Grade 6
problems by writing and solving equations of the	Topics 6, 7 and 8 focus on the understanding of our number system	https://www.savvasrealize.com/community/home
form $[] + [] = []$ and $[] = []$ for cases in which $[]$, $[]$	through fluency in computations with	Manipulative Set
and I are all nonnegative rational numbers.	whole numbers and decimals and finding	Manpulative Set
	common factors and multiples.	
21 [*] Century Life and Careers:		
CRP2. Apply appropriate academic and technical skills		
CRP4. Communicate clearly and effectively and		
with reason.		
CRP6 . Demonstrate creativity and innovation.		
CRP8 . Utilize critical thinking to make sense of		
problems and persevere in solving them		
CRP11. Use technology to enhance productivity.		
CRP12. Work productively in teams while using		
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8.1.5.A.1 Select and use the appropriate digital		
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topics, texts, and issues, building on others' ideas	
and expressing their own clearly.	
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MODIFICATIONS:	
Special Education:	
Students Hands on activity, cooperative learning, peer tutoring, extended time, reteach in utilizing various methods. Utilize remediation resources which include assessment and intervention, in planning and instruction.	
English Language Learners:	
Provide hands-on activities and explanations. Use reduced text, so that print is not so dense. Assess comprehension through demonstration or other alternative means (gestures, drawings). Give instructions/directions in writing and orally. Use of translation dictionaries to locate words in the native language.	
Use English Learners resources such as study guides, assessments and a visual glossary.	
At-Risk Students:	
Hands on activities cooperative learning, reteach using various methods. Make use of remediation lessons and quizzes when appropriate.	
Gifted and Talented Students:	

Utilize Pre-AP Resources such as the pacing, assignment and best practices guide.				
QUARTER 2 – Big Idea: Ratios and Proportional Relationships Topic: Ration Concepts and Reasoning Ratio Concepts-Rates Ratio Concepts- Percent				
 Standards: NJ Student Learning Standards: 6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. 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. 6.RP.A.3a 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 	 SWBAT Use ratios and ratio language to desc Find equivalent ratios Compare ratios to solve problems. Use rates to solve problems. Use unit rates to make comparisons. Use unit rates to compare costs and 	constant speed. 1 factors to convert between customary and metric whole.		
plane. Use tables to compare ratios.	Essential Questions Ass	sessments		
6.RP.A.3b Solve unit rate problems including those involving unit pricing and constant speed. 6.RP.A.3c 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. 6.RP.A.3d Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	What is a ratio? How can you use ratios to describe quantities? What is the meaning of percent? How can percent be estimated and found?	 Topic Nine Assessment, print or online Topic Ten Assessment, print or online Topic Eleven Assessment, print or online 		

6.RP.A.2 Understand the concept of a unit rate □/□ associated with a ratio □:□ with □ ≠ 0, and use rate language in the context of a ratio relationship.		
 21" Century Life and Careers: CRP2. Apply appropriate academic and technical skills CRP4. Communicate clearly and effectively and with reason. CRP6. Demonstrate creativity and innovation. CRP8. Utilize critical thinking to make sense of problems and persevere in solving them CRP11. Use technology to enhance productivity. CRP12. Work productively in teams while using cultural global competence. 	 Enduring Understanding Topics 9, 10 and 11 focus on conceptual understanding of ratios, rates, and percents and on solving problems involving ratio reasoning. Ratios can be used to describe the relationship between two quantities when for every x units of one quantity, there are y units of another quantity. A rate is a special type of ratio that compares two quantities with different units of measure. A percent is a rate in which the first term is compared to 100. Ther percent is the number of hundredths that represents the part of the whole. 	Resources EnVision 2.0 Common Core Grade 6 https://www.savvasrealize.com/community/home Manipulative Set
 Technology Standards: 8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems 8.1.5.A.4 Graph data using a spreadsheet, analyze and produce a report that explains the analysis of the data. 8.2.5.C.4 4 Collaborate and brainstorm with peers to solve a problem evaluating all solutions to provide the best results with supporting sketches or models. 8.2.5.D.3 Follow step by step directions to assemble a product or solve a problem 		

ELA Companion Standards in History, Social	
Studies, Science & Technical Subjects:	
LA.RH.6-8.4 Determine the meaning of words	
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appropriate general academic and domain-	
specific words and phrases; gather vocabulary	
knowledge when considering a word or phrase	
important to comprehension or expression	
LA.SL.6.1 Engage effectively in a range of	
collaborative discussions (one-on-one, in groups,	
and teacher-led) with diverse partners on grade 6	
topics, texts, and issues, building on others' ideas	
and expressing their own clearly.	
MODIFICATIONS:	
Special Education:	
Students Hands on activity, cooperative learning,	
peer tutoring, extended time, reteach in utilizing	

various methods. Utilize remediation resources		
which include assessment and intervention, in		
planning and instruction.		
English Language Learners:		
Provide hands-on activities and explanations.		
Use reduced text, so that print is not so dense.		
Assess comprehension through demonstration		
or other alternative means (gestures, drawings).		
Give instructions/directions in writing and orally.		
Use of translation dictionaries to locate words in		
the native language.		
Use English Learners resources such as study		
guides, assessments and a visual glossary.		
At-Risk Students:		
Hands on activities cooperative learning, reteach		
using various methods. Make use of remediation		
lessons and quizzes when appropriate.		
Gifted and Talented Students:		
Utilize Pre-AP Resources such as the pacing,		
assignment and best practices guide.		
	QUARTER 3-	
	Big Idea: The Number System	
· · · · · · · · · · · · · · · · · · ·	Topic: Divide Fractions by Fractions	5
Standards:	(GOAL
NJ Student Learning Standards:	SWBAT	
6.NS.A.1 Interpret and compute quotients of	Divide fractions by fractions	
fractions and solve word problems involving		
division of fractions by fractions, e.g., by using	Essential Questions	Assessments
visual fraction models and equations to represent	What are standard procedures for	Topic Twelve Assessment, print or
the problem.	estimating and finding quotients of	online
	fractions and mixed numbers?	
	·	·

6.EE.A.2c 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). 6.EE.B.7 Solve real-world and mathematical problems by writing and solving equations of the form $\square + \square = \square$ and $\square = \square$ for cases in which \square, \square and \square are all nonnegative rational numbers.		Topic 1-12 Cumulative/Benchmark Assessment
21* Century Life and Careers:		
CRP2 . Apply appropriate academic and	Enduring Understanding	Resources
technical skills	Topic 12 focus on applying and extending previous understandings of multiplication	EnVision 2.0 Common Core Grade 6
CRP4. Communicate clearly and effectively and	and division to divide by fractions.	https://www.savvasrealize.com/community/home
with reason.		Manipulative Set
CRP6. Demonstrate creativity and innovation. CRP8. Utilize critical thinking to make sense of		
problems and persevere in solving them		
CRP11. Use technology to enhance productivity.		
CRP12. Work productively in teams while using		
cultural global competence.		
Technology Standards:		
8.1.5.A.1 Select and use the appropriate digital		
tools and resources to accomplish a variety of		
tasks including solving problems		
8.1.5.A.4 Graph data using a spreadsheet,		
analyze and produce a report that explains the		
analysis of the data.		
8.2.5.C.4 4 Collaborate and brainstorm with		
peers to solve a problem evaluating all solutions		

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ELA Companion Standards in History, Social	
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MODIFICATIONS:		
Special Education:		
Students Hands on activity, cooperative learning,		
peer tutoring, extended time, reteach in utilizing		
various methods. Utilize remediation resources		
which include assessment and intervention, in		
planning and instruction.		
English Language Learners:		
Provide hands-on activities and explanations.		
Use reduced text, so that print is not so dense.		
Assess comprehension through demonstration		
or other alternative means (gestures, drawings).		
Give instructions/directions in writing and orally.		
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Gifted and Talented Students:		
Utilize Pre-AP Resources such as the pacing,		
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abiginitent and best practices garde.		
	QUARTER 3 –	
Big Idea: Geometry		
Topic: Solve Area Problems		
Solve Surface Area and Volume Problems		
Standards:	GOAL	
NJ Student Learning Standards:	SWBAT	
	Find the areas of parallelograms and rhombuses	

 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. 6.EE.A.2c 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 I = IIIh and I = Ihto find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems. 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. 6.NS.C.6c 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 	 Find the area of triangles Find the area of special quadrilatera Find the area of polygons using a co Classify solid figures and represent Find the surface areas of rectangular pr Essential Questions How can the area of certain shapes be found? What is the meaning of surface area and how can surface area be found? What is the meaning of volume and how can volume be found?	oordinate plane them by thier nets. ar and triangular prisms.
21* Century Life and Careers: CRP2. Apply appropriate academic and technical skills CRP4. Communicate clearly and effectively and with reason.	Enduring Understanding Topis 13 and 14 focus on a deep understanding of area of polygons, surface area of solids, and volume of right rectangular prisms with fractional side lengths.	Resources EnVision 2.0 Common Core Grade 6 https://www.savvasrealize.com/community/home Manipulative Set

CRP6. Demonstrate creativity and innovation.	
CRP8. Utilize critical thinking to make sense of	
problems and persevere in solving them	
CRP11. Use technology to enhance productivity.	
CRP12. Work productively in teams while using	
cultural global competence.	
Technology Standards:	
8.1.5.A.1 Select and use the appropriate digital	
tools and resources to accomplish a variety of	
tasks including solving problems	
8.1.5.A.4 Graph data using a spreadsheet,	
analyze and produce a report that explains the	
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8.2.5.C.4 4 Collaborate and brainstorm with	
peers to solve a problem evaluating all solutions	
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in charts, graphs, photographs, videos, or maps)	
with other information in print and digital texts.	
Anchor Standards:	
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peer tutoring, extended time, reteach in utilizing	
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English Language Learners:	
Provide hands-on activities and explanations.	
Use reduced text, so that print is not so dense.	
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Use of translation dictionaries to locate words in	
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Use English Learners resources such as study guides, assessments and a visual glossary. At-Risk Students: Hands on activities cooperative learning, reteach using various methods. Make use of remediation lessons and quizzes when appropriate. Gifted and Talented Students:				
Utilize Pre-AP Resources such as the pacing, assignment and best practices guide.				
	QUARTER 4 -			
Big Idea: Statistics and Probability				
T o	pic: Measures of Center and Variabi	lity		
	Display and Summarize Data			
Standards:		GOAL		
NJ Student Learning Standards:	SWBAT:			
6.SP.A.1 Recognize a statistical question as one	Identify and write statistical question	s and then display the collected data.		
that anticipates variability in the data related to	• Find the mean, median, mode, and range of a data set.			
the question and accounts for it in the answers.	• Make and analyze frequency tables,	histograms, and box plots.		
6.SP.A.2 Understand that a set of data collected	• Summarize a numerical data set.			
to answer a statistical question has a distribution				
which can be described by its center, spread, and				
overall shape.	Essential Questions	Assessments		
6.SP.A.3 Recognize that a measure of center for a numerical data set summarizes all of its values	How can you describe a data distribution?	• Topic Fifteen Assessment, print or		
with a single number, while a measure of variation describes how its values vary with a	How can data be described by a single number?	onlineTopic Sixteen Assessment, print or online		
single number.	How can graphs be used to represent data and answer questions?	Topic 1-16 Cumulative/Benchmark Assessment		

 6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots. 6.SP.B.5.a Summarize numerical data sets in relation to their context, such as by: Reporting the number of observations. 6.SP.B.5.b Summarize numerical data sets in relation to their context, such as by: Describing the nature of the attribute under investigation, including how it was measured and its units of 		
measurement. 6.SP.B.5.c Giving quantitative measures of center	Enduring Understanding Topic 15 focuses on developing	Resources EnVision 2.0 Common Core Grade 6
 (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. 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. 	understanding of variability and the concept of statistical measures. Students learn that a question is statistical if there is an expectation of a variety of answers. Data generated by a statistical question has variability. Students are introduced to measures of center and variability. Topic 16 focuses on conceptual understanding of how to describe data distributions.	https://www.savvasrealize.com/community/home Manipulative Set
21* Century Life and Careers: CRP2. Apply appropriate academic and technical skills CRP4. Communicate clearly and effectively and with reason.		
CRP6. Demonstrate creativity and innovation. CRP8. Utilize critical thinking to make sense of problems and persevere in solving them		

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Technology Standards:	
8.1.5.A.1 Select and use the appropriate digital	
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8.1.5.A.4 Graph data using a spreadsheet,	
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LA.L 6.4.A Use context (e.g., the overall	
meaning of a sentence or paragraph; a word's	

position or function in a sentence) as a clue to the meaning of a word or phrase. **LA.L.6.6** Acquire and use accurately gradeappropriate general academic and domainspecific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression **LA.SL.6.1** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly.

MODIFICATIONS:

Special Education:

Students Hands on activity, cooperative learning, peer tutoring, extended time, reteach in utilizing various methods. Utilize remediation resources which include assessment and intervention, in planning and instruction.

English Language Learners:

Provide hands-on activities and explanations. Use reduced text, so that print is not so dense. Assess comprehension through demonstration or other alternative means (gestures, drawings). Give instructions/directions in writing and orally. Use of translation dictionaries to locate words in the native language.

Use English Learners resources such as study guides, assessments and a visual glossary.

At-Risk Students:

Hands on activities cooperative learning, reteach using various methods. Make use of remediation lessons and quizzes when appropriate. Gifted and Talented Students:

QUARTER 4 – Big Idea: Topic:			
	GOAL		
SWBAT			
Essential Questions	Assessments		
Enduring Understanding	Resources		
	Big Idea: Topic: SWBAT Essential Questions	Big Idea: Topic: GOAL SWBAT Essential Questions Assessments Image: Contract of the second secon	

8.2.5.C.4 4 Collaborate and brainstorm with	
peers to solve a problem evaluating all solutions	
to provide the best results with supporting	
sketches or models.	
8.2.5.D.3 Follow step by step directions to	
assemble a product or solve a problem	
ELA Companion Standards in History, Social	
Studies, Science & Technical Subjects:	
LA.RH.6-8.4 Determine the meaning of words	
and phrases as they are used in a text, including	
vocabulary specific to domains related to	
history/social studies.	
LA.RH.6-8.5 Describe how a text presents	
information (e.g., sequentially, comparatively,	
causally)	
LA.RH.6-8.7 Integrate visual information (e.g.,	
in charts, graphs, photographs, videos, or maps)	
with other information in print and digital texts.	
Anchor Standards:	
LA.L 6.4.A Use context (e.g., the overall	
meaning of a sentence or paragraph; a word's	
position or function in a sentence) as a clue to	
the meaning of a word or phrase.	
LA.L.6.6 Acquire and use accurately grade-	
appropriate general academic and domain-	
specific words and phrases; gather vocabulary	
knowledge when considering a word or phrase	
important to comprehension or expression	
LA.SL.6.1 Engage effectively in a range of	
collaborative discussions (one-on-one, in groups,	
and teacher-led) with diverse partners on grade 6	
topics, texts, and issues, building on others' ideas	
and expressing their own clearly.	

MODIFICATIONS:	
Special Education:	
Students Hands on activity, cooperative learning,	
peer tutoring, extended time, reteach in utilizing	
various methods. Utilize remediation resources	
which include assessment and intervention, in	
planning and instruction.	
English Language Learners:	
Provide hands-on activities and explanations.	
Use reduced text, so that print is not so dense.	
Assess comprehension through demonstration	
or other alternative means (gestures, drawings).	
Give instructions/directions in writing and orally.	
Use of translation dictionaries to locate words in	
the native language.	
Use English Learners resources such as study	
guides, assessments and a visual glossary.	
At-Risk Students:	
Hands on activities cooperative learning, reteach	
using various methods. Make use of remediation	
lessons and quizzes when appropriate.	
Gifted and Talented Students:	
Utilize Pre-AP Resources such as the pacing,	
assignment and best practices guide.	