Pre-Algebra Curriculum



Roger León, Superintendent Nicole T. Johnson, Deputy Superintendent Dr. Mary Ann Reilly, Assistant Superintendent for Teaching and Learning

2023-2024

Newark Board of Education

- Asia J. Norton, President
- Dawn Haynes, Co-Vice President
- Vereliz Santana, Co-Vice President
- Hasani K. Council
- Josephine C. Garcia
- Daniel Gonzelez
- Allison K. James-Frison
- A'Dorian Murray-Thomas, Program and Instruction Chairperson
- Crystal Williams

Newark Board of Education Administration

- Roger León, Superintendent
- Havier Nazario, Chief of Staff
- Valerie Wilson, School Business Administrator
- Dr. Mary Ann Reilly, Assistant Superintendent for Teaching and Learning
- Dr. Jose Fuentes, Assistant Superintendent for North Schools
- Dr. Shakira Harrington, Assistant Superintendent for East-Central Schools
- Samantha Lott-Velez, Assistant Superintendent for South-West Schools
- Dr. Maria Ortiz, Assistant Superintendent for High Schools
- Matthew J. Brewster, Director of Staff Development
- Carolyn Granato, Assistant Superintendent of Student Supports
- Rochanda Jackson, Executive Director of the Office Policy, Planning, Evaluation and Testing
- Yolanda Severe, Executive Director of the Office Early Childhood

Curriculum Writers

- Ericka Betancourt, Teacher of Mathematics, Camden Street School
- Dennis Caceres, Teacher Coach, First Avenue School
- Whitney Farrand, Teacher, Mount Vernon School
- Tracy Marateo, Teacher, McKinley Elementary School
- Iramis Ochoa-Siguencia, Teacher of Mathematics, Technology High School
- Joseph Quales, Teacher of Mathematics, William H. Horton School
- Alex Thompson, Teacher of Mathematics, First Avenue School
- Karyn Unger, Instructional Specialist, Office of Mathematics

Curriculum Reviewers

- Amanda Grossi, Director, Office of Mathematics
- Darlene Parisi, Supervisor, Office of Mathematics
- Frances Finazzo, Supervisor, Office of Mathematics

Course Description

The Pre-Algebra course covers all Grade 7 NJSLS for Mathematics. Grade 7 Mathematics is designed to (1) develop understanding and application of proportional relationships; (2) strengthen understanding of operations with rational numbers and linear equations; (3) introduce problems involving scale drawings, informal geometric constructions, and two- and three-dimensional shapes; and (4) the use of statistical inferences about populations based on samples.

Students extend their understanding of ratios and develop understanding of proportionality to solve single- and multi-step problems. Students use their understanding of ratios and proportionality to solve a wide variety of percent problems, including those involving discounts, interest, taxes, tips, and percent increase or decrease. Students solve problems about scale drawings by relating corresponding lengths between the objects or by using the fact that relationships of lengths within an object are preserved in similar objects. Students graph proportional relationships and understand the unit rate informally as a measure of the steepness of the related line, called the slope. They distinguish proportional relationships from other relationships.

Students develop a unified understanding of numbers, recognizing fractions, decimals (that have a finite or a repeating decimal representation), and percents as different representations of rational numbers. Students extend addition, subtraction, multiplication, and division to all rational numbers, maintaining the properties of operations and the relationships between addition and subtraction, and multiplication and division. By applying these properties, and by viewing negative numbers in terms of everyday contexts (e.g., amounts owed or temperatures below zero), students explain and interpret the rules for adding, subtracting, multiplying, and dividing with negative numbers. They use the arithmetic of rational numbers as they formulate expressions and equations in one variable and use these equations to solve problems.

Students continue their work with area from Grade 6, solving problems involving the area and circumference of a circle and surface area of three-dimensional objects. Students reason about relationships among two-dimensional figures using scale drawings and informal geometric constructions, and they gain familiarity with the relationships between angles formed by intersecting lines. Students work with three-dimensional figures, relating them to two-dimensional figures by examining cross-sections. They solve real-world and mathematical problems involving area, surface area, and volume of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes and right prisms. Students build on their previous work with single data distributions to compare two data distributions and address questions about differences between populations. They begin informal work with random sampling to generate data sets and learn about the importance of representative samples for drawing inferences.

The Pre-Algebra course also includes all Grade 8 NJSLS for Mathematics that are essential for success in Algebra 1. Students use linear equations and systems of linear equations to represent, analyze, and solve a variety of problems. Students recognize equations for proportions (y/x = m or y = mx) as special linear equations (y = mx + b), understanding that the constant of proportionality (m) is the slope, and the graphs are lines through the origin. They understand that the slope (m) of a line is a constant rate of change, so that if the input or x-coordinate changes by an amount A, the output or y-coordinate changes by the amount m·A.

Students strategically choose and efficiently implement procedures to solve linear equations in one variable, understanding that when they use the properties of equality and the concept of logical equivalence, they maintain the solutions of the original equation. Students solve systems of two linear equations in two variables and relate the systems to pairs of lines in the plane; these intersect, are parallel, or are the same line. Students use linear equations, systems of linear equations, linear functions, and their understanding of slope of a line to analyze situations and solve problems.

Students grasp the concept of a function as a rule that assigns to each input exactly one output. They understand that functions describe situations where one quantity determines another. They can translate among representations and partial representations of functions (noting that tabular and graphical representations may be partial representations), and they describe how aspects of the function are reflected in the different representations. Students understand the statement of the Pythagorean Theorem and its converse, and can explain why the Pythagorean Theorem holds, for example, by decomposing a square in two different ways.

Curriculum Map

STANDARD						1U	TIV					
SIANDARD	1A	1B	1C	2A	2B	2C	3A	3B	3C	4A	4B	4C
GRADE 7: RATIOS & PROPORTIONAL RELATIONSHIPS												
A. ANALYZE PROPORTIONAL RELATIONSHIPS AND USE THEM TO SOLVE REAL-WORLD A	ND MA	THEM	IATIC	AL PR	OBLEN	AS.						
1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. For example, if a person walks 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction 1/2/1/4 miles per hour, equivalently 2 miles per hour.	•											
 2. Recognize and represent proportional relationships between quantities. a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin. b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships. c. Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as t = pn. d. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate. 												
3. Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.	•				•							
STANDARD	1A	1B	1C	2A	2B	U1 2C	NIT 3A	3B	3C	4A	4B	4C
GRADE 7: THE NUMBER SYSTEM												

A. APPLY AND EXTEND PREVIOUS UNDERSTANDINGS OF OPERATIONS WITH FRACTIONS	5.											
 Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. Describe situations in which opposite quantities combine to make 0. For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged. Understand p + q as the number located a distance q from p, in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts. Understand subtraction of rational numbers as adding the additive inverse, p - q = p + (-q). Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts. Apply properties of operations as strategies to add and subtract rational numbers.												
 2. Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. a. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as (-1)(-1) = 1 and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts. b. Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then -(p/q) = (-p)/q = p/(-q). Interpret quotients of rational numbers by describing real-world contexts. c. Apply properties of operations as strategies to multiply and divide rational numbers. d. Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats. 												
3. Solve real-world and mathematical problems involving the four operations with rational numbers.		•		•								
STANDARD	1A	1B	1C	2A	2B	UI 2C	NIT 3A	3B	3C	4A	4B	4C
GRADE 8: THE NUMBER SYSTEM												

A. KNOW THAT THERE ARE NUMBERS THAT ARE NOT RATIONAL, AND APPROXIMATE THE	HEM B	Y RAT	IONAL	NUM	BERS.							
1. Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	/	•										
2. Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., $\pi 2$). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.		/										
CTANDADD						UN	IIT					
STANDARD	1A	1B	1C	2A	2B	2C	3A	3B	3C	4A	4B	4C
GRADE 7: EXPRESSIONS & EQUATIONS												
A. USE PROPERTIES OF OPERATIONS TO GENERATE EQUIVALENT EXPRESSIONS.												
1. Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.				/								
2. Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. For example, $a+0.05a=1.05a$ means that "increase by 5%" is the same as "multiply by 1.05."				•								
B. SOLVE REAL-LIFE AND MATHEMATICAL PROBLEMS USING NUMERICAL AND ALGEBRA	AIC EXI	PRESS	IONS	AND E	QUAT	IONS.						
3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.												

 4. Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities. a. Solve word problems leading to equations of the form px + q = r and p(x + q) = r, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width? b. Solve word problems leading to inequalities of the form px + q > r or px + q < r, where p, q, and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem. For example: As a salesperson, you are paid \$50 per week plus \$3 per sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, and describe the solutions. 												
STANDARD	1A	1B	1C	2A	2B	UN 2C	IIT 3A	3B	3C	4A	4B	4C
GRADE 8: EXPRESSIONS & EQUATIONS												
A. WORK WITH RADICALS AND INTEGER EXPONENTS.												
1. Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $32 \times 3-5 = 3-3 = 1/33 = 1/27$.									\			
2. Use square root and cube root symbols to represent solutions to equations of the form $x2 = p$ and $x3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.		•										
3. Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as 3 times 108 and the population of the world as 7 times 109, and determine that the world population is more than												
20 times larger.												

B. UNDERSTAND THE CONNECTIONS BETWEEN PROPORTIONAL RELATIONSHIPS, LINES,	AND	LINEA	R EQU	ATIO	NS.							
5. Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.											•	
6. Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b.											•	
C. ANALYZE AND SOLVE LINEAR EQUATIONS AND PAIRS OF SIMULTANEOUS LINEAR EQU	C. ANALYZE AND SOLVE LINEAR EQUATIONS AND PAIRS OF SIMULTANEOUS LINEAR EQUATIONS.											
 7. Solve linear equations in one variable. a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers). b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. 												
 8. Analyze and solve pairs of simultaneous linear equations. a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, 3x + 2y = 5 and 3x + 2y = 6 have no solution because 3x + 2y cannot simultaneously be 5 and 6. c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair. 												•
STANDARD			•			UN	IIT					
SIANDARD	1A	1B	1C	2A	2B	2C	3A	3B	3C	4A	4B	4C
GRADE 8: FUNCTIONS												
A. DEFINE, EVALUATE, AND COMPARE FUNCTIONS.												

1. Understand that a function is a rule that assigns to each input exactly one output. The graph												
of a function is the set of ordered pairs consisting of an input and the corresponding output.												
2. Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.												
3. Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function $A = s2$ giving the area of a square as a function of its side length is not linear because its graph contains the points $(1,1)$, $(2,4)$ and $(3,9)$, which are not on a straight line.												
B. USE FUNCTIONS TO MODEL RELATIONSHIPS BETWEEN QUANTITIES.												
4. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.pointing in the opposite direction. Represent vector subtraction graphically by connecting the tips in the appropriate order, and perform vector subtraction component-wise.												
5. Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.												
STANDARD						UI	TIV					
SIANDARD	1A	1B	1C	2A	2B	2C	3A	3B	3C	4A	4B	4C
GRADE 7: GEOMETRY												
A. DRAW, CONSTRUCT, AND DESCRIBE GEOMETRICAL FIGURES AND DESCRIBE THE REL	ATION:	SHIPS	BETV	/EEN 7	ГНЕМ.							

2. Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.						/						
3. Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.							•					
B. SOLVE REAL-LIFE AND MATHEMATICAL PROBLEMS INVOLVING ANGLE MEASURE, ARI	EA, SUI	RFACE	AREA	, AND	VOLU	ME.						
4. Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.							•					
5. Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.						/	/					
6. Solve real-world and mathematical problems involving area, volume and surface area of two-and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.												
STANDARD	1A	1B	1C	2A	2B	UN 2C	NIT 3A	3B	3C	4A	4B	4C
GRADE 8: GEOMETRY												
B. UNDERSTAND AND APPLY THE PYTHAGOREAN THEOREM.												
6. Explain a proof of the Pythagorean Theorem and its converse.										•		
7. Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.										•		
8. Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.										•		

STANDARD						UN	IIT					
SIANDARD	1A	1B	1C	2A	2B	2C	3A	3B	3C	4A	4B	4C
GRADE 7: STATISTICS & PROBABILITY												
A. USE RANDOM SAMPLING TO DRAW INFERENCES ABOUT A POPULATION.												
1. Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.								/				
2. Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. For example, estimate the mean word length in a book by randomly sampling words from the book; predict the winner of a school election based on randomly sampled survey data. Gauge how far off the estimate or prediction might be.												
B. DRAW INFORMAL COMPARATIVE INFERENCES ABOUT TWO POPULATIONS.												
3. Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability. For example, the mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team, about twice the variability (mean absolute deviation) on either team; on a dot plot, the separation between the two distributions of heights is noticeable.												
4. Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. For example, decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth-grade science book.								/				
C. INVESTIGATE CHANCE PROCESSES AND DEVELOP, USE, AND EVALUATE PROBABILITY	MODE	LS.								·		
5. Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely or likely, and a probability near 1 indicates a likely event.												

 6. Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability. For example, when rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times. 7. Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy. a. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected. 								\rightarrow \right				
b. Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process. For example, find the approximate probability that a spinning penny will land heads up or that a tossed paper cup will land open-end down. Do the outcomes for the spinning penny appear to be equally likely based on the observed frequencies?												
 8. Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation. a. Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs. b. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event. c. Design and use a simulation to generate frequencies for compound events. For example, use random digits as a simulation tool to approximate the answer to the question: If 40% of donors have type A blood, what is the probability that it will take at least 4 donors to find one with type A blood? 												
STANDARD	1.0	1 D	10	24	20		NIT	20	20	4.4	40	46
GRADE 8: STATISTICS & PROBABILITY	1A	1B	1C	2A	2B	2C	3A	38	36	4A	48	4L
A. INVESTIGATE PATTERNS OF ASSOCIATION IN BIVARIATE DATA.												
1. Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or								/				

negative association, linear association, and nonlinear association.						
2. Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.				•		
3. Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept. For example, in a linear model for a biology experiment, interpret a slope of 1.5 cm/hr as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height.				•		
4. Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?						

Pacing Guide

	UNIT	Standards	Pacing	2023-2024
		CYCLE 1		
	DIAGNOSTIC AS	SSESSMENT	1 day	September 11
1A	Unit 1A: Scale Drawings	7.G.A.1	12 days	September 3- September 19
1B	■ Unit 1B: Introducing Proportional Relationships	7.G.A.1; 7.G.B.6; 7.RP.A.1; 7.RP.A.2	14 days	September 20 - October 9
1C	■ Unit 1C: Measuring Circles and Volume	7.EE.B.3; 7.G.A.1; 7.G.A.2; 7.G.B.4; 7.RP.A.2; 7.RP.A.3; 8.EE.C.5; 8.G.C.9	12 days	October 10 - October 29
1D	Unit 1D: Proportional Relationships	7.NS.A.2; 7.RP.A.1; 7.RP.A.2; 7.RP.A.3	5 days	October 30- November 5
	BENCHMARK AS	SESSMENT 1	1 day	November 6
		CYCLE 2		
2A	■ Unit 2A: Percentages	7.RP.A.3	10 days	November 13 - November 29
2В	Unit 2B: Rational Number Arithmetic	7.EE.B.3; 7.EE.B.4; 7.NS.A.1; 7.NS.A.2; 7.NS.A.3; 7.RP.A.2; 8.EE.A.2; 8.NS.A.1; 8.NS.A.2	18 days	November 30- January 4

2C	■ Unit 2C: Equations and Inequalities.docx	7.EE.A.2; 7.EE.B.3; 7.EE.B.4	14 days	January 5 - January 25
	BENCHMARK AS	SESSMENT 2	1 day	January 26
		CYCLE 3		
3A	■ Unit 3A: Expressions and Equations.docx	7.NS.A.1; 7.EE.A.1; 8.EE.C.7	11 days	January 29 - February 12
3В	■ Unit 3B: Angles, Triangles, and Prisms.docx	7.EE.B.4; 7.G.A.2; 7.G.A.3; 7.G.B.5; 7.G.B.6; 7.NS.A.1	14 days	February 13 - March 6
3C	Unit 3C: Probability and Sampling	7.NS.A.2; 7.SP.A.1; 7.SP.A.2; 7.SP.B.3; 7.SP.B.4; 7.SP.C.5; 7.SP.C.6; 7.SP.C.7; 7.SP.C.8	17 days	March 7 - April 11
	BENCHMARK AS	SESSMENT 3	1 day	April 12
		CYCLE 4		
4A	■ Unit 4A: Rigid Transformations and Congruence	8.G.A.1; 8.G.A.2; 8.G.A.3; 8.G.A.5	16 days	April 15 - May 6
4B	■ Unit 4B: Dilations, Similarity, and Introducing Sl	8.G.A.2; 8.G.A.3; 8.G.A.4; 8.G.A.5; 8.EE.B.6	12 days	May 7 - May 23
4C	Unit 4C: Linear Relationships	8.EE.B.5; 8.EE.B.6; 8.EE.C.8	14 days	May 24 - June 24
	BENCHMARK AS	SESSMENT 4	1 day	June 14