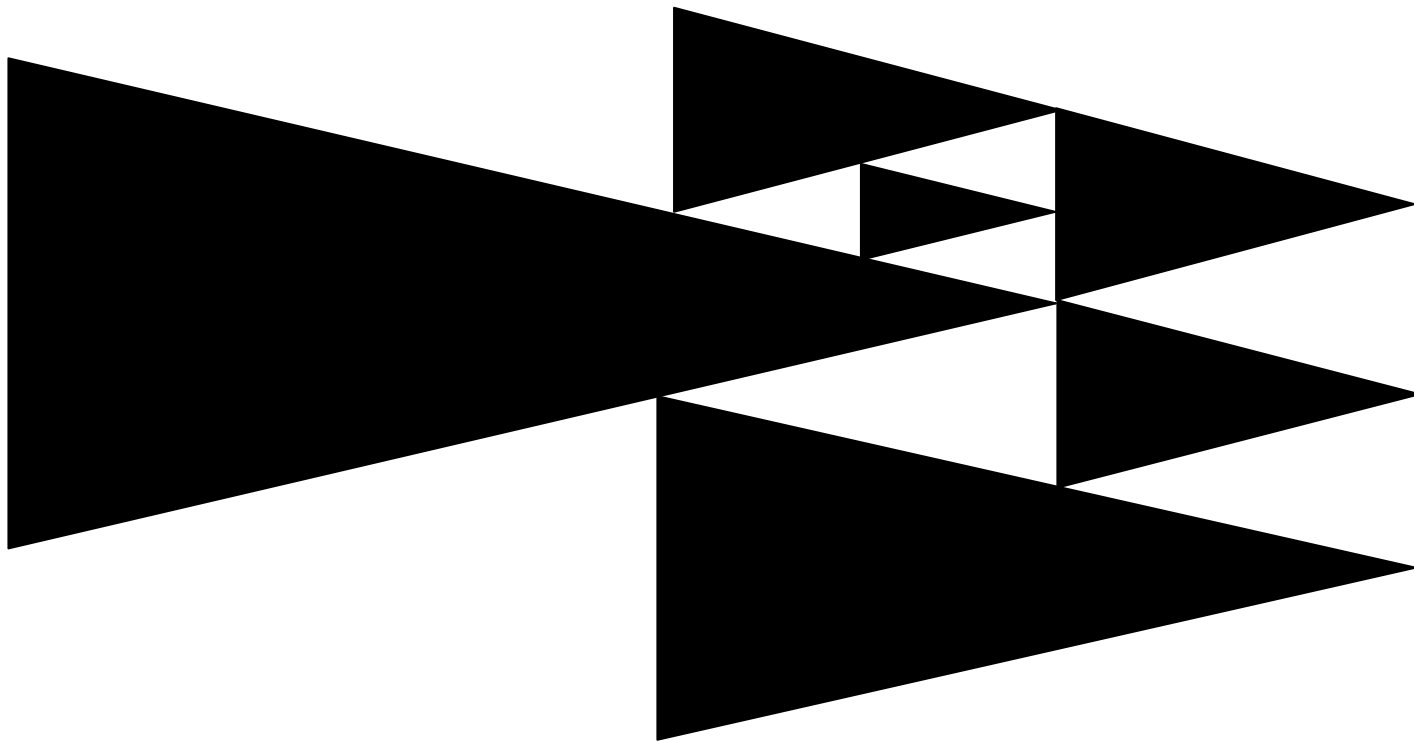


**pacing guide
 mathematics – cpm algebra 1
 duval county schools
 version 2.0**



CPM Algebra I Pacing Guide

Day	Performance Standard	Instructional Materials	Evaluation
1-4		Unit 0 – Working in Teams (Getting Started)	
5-14	<p>The student will:</p> <ul style="list-style-type: none"> 1.1 Simplify expressions with and without grouping symbols. 1.3 Find solution sets for equations and inequalities over a given domain. 2.2 Find sums of rational numbers. 2.3 Find differences of rational numbers. 2.4 Find products of rational numbers. 2.5 Determine the reciprocals of specified rational numbers. 2.6 Find quotients of rational numbers. 3.3 Use the distributive property to combine similar terms. 	<p>Unit 1 – Organizing Data (Difference of Squares)</p> <p>Adding and Subtracting Integers Interpreting Graphs and Comparing Areas Multiplying and Dividing Integers Interpreting Graphs Problem Solving with Guess and Check Tables Patterns and Special Numbers Introduction to Variables and Combining Like Terms Check and Guess Tables Difference of Squares</p>	Study Team questions Quiz
5, 16			Presentations Formative assessment
17-26	<p>The student will:</p> <ul style="list-style-type: none"> 1.1 Simplify expressions with and without grouping symbols. 3.3 Use the distributive property to combine similar terms. 	<p>Unit 2 – Area and Subproblems (Tiling the Kitchen Floor)</p> <p>Area of Triangles and Subproblems Area and Circumference of Circles</p>	Study Team questions Quiz

Day	Performance Standard	Instructional Materials	Evaluation
		Circles and Subproblems Grouping and Distributive Property Developing the Distributive Property Using the Distributive Property Order of Operations and Scientific Notation Unit Summary and Review	
27, 28			Presentations Formative assessment
29-38	The student will: 7.4 Graph sets of ordered pairs, linear equations in two variables by using intercepts, slope and a points, and point-plotting. 7.5 Find images for transformations. 7.6 Graph equations of the form $y = ax^2$ $b= bx + c$, where a, b, and c are real numbers.	Unit 3 – Graphs and Patterns (The Burning Candle) Understand Input/Output Relationships Tables and Graphs Graphing Input/Output Relationships Writing Rules for Input/Output Relationships Estimating X-Intercepts Comparing Graphs of Lines and Parabolas Exploring Parabolas Graphs of Non-Linear Functions Unit Summary and Review	Study Team questions Quiz
39			Formative

Day	Performance Standard	Instructional Materials	Evaluation
			assessment
40-50	<p>The student will:</p> <p>1.4 Use appropriate mathematical symbols to translate word phrases into variable expression and word sentences into equations or inequalities.</p> <p>4.1 Solve equations using the addition property of equality or subtraction property of equality.</p> <p>4.2 Solve equations using the multiplication property of equality or division property of equality.</p> <p>4.3 Solve first degree literal equations or formulas for specified variable.</p>	<p>Unit 4 – Writing and Solving Equations (Choosing a Phone Plan)</p> <p>Writing Equations from Guess and Check Tables</p> <p>More Writing Equations</p> <p>Solving Simple Equations with Cups and Tiles</p> <p>Common Term Factoring and More Equations Solving Equations as Inverse Operations</p> <p>Equations with Parentheses</p> <p>Literal Equations</p>	Study Team questions Quiz
51, 52			Presentation Formative assessment
53-62	<p>The student will:</p> <p>7.7 Determine the slope of a line when given two points on a line or an equations of the line.</p> <p>9.4 Solve equations involving proportions.</p>	<p>Unit 5 – Numerical, Geometric, and Algebraic Ratios (Estimating Fish Population)</p> <p>Exploring Ratios</p> <p>Enlarging and Reducing Figures</p> <p>Ratios of Perimeters and Areas</p> <p>Ratios in Right Triangles</p> <p>Percent and Proportion</p> <p>Equivalent Ratios and Graphs</p>	Study Team questions Quiz

Day	Performance Standard	Instructional Materials	Evaluation
		Writing and Solving Equations Involving Ratios Unit Review and Summary	
63, 64			Presentations Formative assessment
65-75	<p>The student will:</p> <p>1.2 Evaluate variables expressions for specified values.</p> <p>1.3 Use appropriate mathematical symbols to translate word phrases into variable expressions and word sentences into equations or inequalities.</p> <p>7.4 Graph sets of ordered pairs, linear equations in two variables by using intercepts, slope and a point, and point-plotting.</p> <p>10.1 Solve systems of linear equations by graphing, substitution, and linear combination.</p> <p>6.2 Add and subtract polynomials.</p> <p>6.3 Multiply polynomials.</p>	<p>Unit 6 – Graphing and Systems of Linear Equations (World Records)</p> <p>Interpreting Graphs, Part 1 Writing Equations to Solve Problems Interpreting Graphs, Part 2 Graphing Lines Using Two Points Solving Systems by Graphing and Substitution Applying Systems of Equations More Applications of Linear Systems Multiplying Binomials Binomial Squares Unit Review</p>	
76, 77			Formative assessment
78-87	<p>The student will:</p> <p>7.4 Graph sets of ordered pairs, linear equations in two variables by using intercepts,</p>	Unit 7 – Slopes and Rates of Change (The Big Race)	Study Team questions

Day	Performance Standard	Instructional Materials	Evaluation
	<p>slope and point, and point-plotting.</p> <p>7.5 Determine the slope of a line when given two points on a line or an equations of a line.</p>	<p>Linear Equations Graphing Linear Equations with Intercepts Positive and Negative Slope Slope: Relating the Equations to Its Graph Slope-Intercept Form of Linear Equations Graphing Using Slope-Intercept Form</p> <p>Unit 12 – Problem Solving and Inequalities (The Grazing Goat) Introduction to Inequalities (GG39-44, GG53-56, GG 58, GG59, GG87-91)</p> <p>Unit 7 – Slopes and Rates of Change (The Big Race) Solving Systems of Equations by Substitution Lines With Equal Slope and More Substitution Unit Summary and Review</p>	<p>Quiz</p>
88-89			<p>Formative assessment</p>
90-99	<p>The student will:</p> <p>6.3 Multiply polynomials.</p> <p>6.4 Factor integers and find the greatest common factor for sets of integers.</p>	<p>Unit 8 – Factoring Quadratics (The Amusement Park)</p>	<p>Study Team questions Quiz</p>

Day	Performance Standard	Instructional Materials	Evaluation
	6.5 Find the monomial factors of given polynomials. 6.8 Factor the differences of squares, trinomial squares, and trinomials which are not perfect squares. 6.9 Factor by grouping. 6.10 Solve equations by factoring. 7.7 Graph equations for the form $y = ax^2 + x + c$, where a, b, and c are real numbers.	Multiplying Polynomials Factoring Factoring Using Sums and Products Greatest Common Factor The Zero Product Property Factoring the Difference of Squares Perfect Square Trinomials Unit Summary and Review	
100, 101			Formative assessment
102- 111	The Student will: 8.1 Arrange sets of real numbers in increasing or decreasing order. 8.2 Find fractions or decimals between any two given fractions or decimals. 8.3 Change fractions to terminating or repeating decimals and change terminating or repeating decimals to fractions. 8.4 Simplify radical expressions involving square roots. 8.5 Add, subtract, and multiply radicals.	Unit 9 – Using Diagrams to Write Equations Developing the Pythagorean Theorem Finding the Length of a Line Segment Using Diagrams to Write Equations Making a Model Solving Equations with Algebraic Fractions Simplifying expressions with Radicals Additional Work with simplifying Radicals Finding the Equation of a Line Given Two Points	Study Team questions Quiz

Day	Performance Standard	Instructional Materials	Evaluation
		Unit Summary and Review	
112, 113			Presentations Formative assessment
114- 123	<p>The student will:</p> <p>6.1 Simplify expressions involving exponents.</p> <p>6.6 Simplify quotients of monomials.</p> <p>6.7 Divide polynomials by monomials.</p> <p>6.8 Factor differences of squares, trinomial squares, and trinomials that are not perfect squares.</p> <p>6.9 Factor by grouping.</p> <p>9.1 Simplify algebraic fractions.</p>	<p>Unit 10 – Exponent and Quadratics (Yearbook Sales)</p> <p>Factoring Quadratics Properties of Exponents Zero and Negative Exponents Introduction to Rational Expressions Simplifying Rational Expressions Quadratic Equations: Standard Form The Quadratic Formula Unit Summary and Review</p>	Study Team questions Quiz
124, 125			Presentations Formative assessment
126-- 137	<p>The student will:</p> <p>7.1 State the domain and range of specified functions.</p> <p>7.2 Identify whether given graphs or sets of points are functions.</p> <p>7.3 Find function values.</p> <p>9.2 Multiply and divide algebraic fractions.</p> <p>2.7 Find the absolute value for specified rational numbers.</p>	<p>Unit 11 – Functions and Equality (The Cola Machine)</p> <p>Relations Solving Linear Systems by Elimination</p>	Study Team questions Quiz

Day	Performance Standard	Instructional Materials	Evaluation
	1.4 Evaluate variable expressions for specified values. 3.1 Use the field properties to justify algebraic statements. 3.2 Use the field properties to simplify numerical expressions.	Multiplying and Dividing Rational Expressions Introduction to Functions Function Notation Absolute Value Solving Absolute Value Equations Properties of Equality Unit Summary and Review	
138, 139			Formative assessment
140- 149	The student will: 9.2 Add and subtract algebraic fractions. 2.1 State the coordinates of specified points on the number line and graph points on the number line when given the coordinates. 5.1 Use order symbols to compare given real numbers. 5.2 Use the addition property of order and multiplication property of order to solve simple inequalities. 5.3 Solve compound inequalities. 5.4 Graph the solutions sets of inequalities on number lines. 10.2 Solve systems of linear inequalities by graphing.	Unit 12 – Problem Solving and inequalities (The Grazing Goat) Problem Solving With Distance, Rate, and Time Adding and Subtracting Rational expressions Introduction to Inequalities Solving Linear Inequalities Solving Quadratic Inequalities Solving Inequalities with Absolute Value Graphing Linear Inequalities Graphing Systems of Linear Equations Applying Problems Solving “Strategies Unit Summary and Review	Study Team questions Quiz

Day	Performance Standard	Instructional Materials	Evaluation
150, 151			Presentations Formative assessment
152			Summative assessment