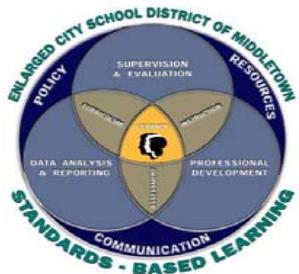




Grade 7 Math – Non-Accelerated Marking Periods 1-4 Post-March

STANDARD	PERFORMANCE INDICATORS	PACING DAYS	RESOURCES	ASSESSMENT (Evidence & Scoring Guides)
	Unit 1: Number Systems			
7.N.1	<ul style="list-style-type: none"> Distinguish between the various subsets of real numbers (counting/natural numbers, whole numbers, integers, rational numbers, and irrational numbers). 	2		
7.N.2	<ul style="list-style-type: none"> Recognize the difference between rational and irrational numbers (e.g., explore different approximations). 	1		
7.N.3	<ul style="list-style-type: none"> Place rational and irrational numbers (approximations) on a number line and justify the placement of the numbers. 	1		
7.N.4	<ul style="list-style-type: none"> Develop the laws of exponents for multiplication and division. 	2		
7.N.5	<ul style="list-style-type: none"> Write numbers in scientific notation. 	1		
7.N.6	<ul style="list-style-type: none"> Translate numbers from scientific notation to standard form. 	1		
7.M.10	<ul style="list-style-type: none"> Identify the relationships between relative error and magnitude when dealing with large numbers (e.g., money, population). 	1		
7.N.7	<ul style="list-style-type: none"> Compare numbers written in scientific 	1		



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	notation.			
Review and Test		2		
Total Days		11		
Unit 2: Number Theory				
7.N.10	<ul style="list-style-type: none"> Determine the prime factorization of a given number and write in exponential form. 	2		
7.N.8	<ul style="list-style-type: none"> Find the common factors and GCF of two or more numbers. 	2		
7.N.9	<ul style="list-style-type: none"> Determine multiples and LCM of two or more numbers. 	2		
7.N.11	<ul style="list-style-type: none"> Simplify expressions using order of operations note: expression may include absolute value and/or integral exponents greater than zero. 	2		
7.N.12	<ul style="list-style-type: none"> Add, subtract, multiply, and divide integers. 	10		
7.N.13	<ul style="list-style-type: none"> Add and subtract two integers (with and without the use of a number line). 			
7.N.14	<ul style="list-style-type: none"> Develop a conceptual understanding of negative and zero exponents with a base of ten and relate to fractions and decimals. (e.g., $10^{-2} = .01 = 1/100$) 	2		



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Review and Test		3		
Total Days		23		
Unit 3: Operations				
7.N.15	<ul style="list-style-type: none"> Recognize and state the value of the square root of a perfect square (up to 225). 	2		
7.N.16	<ul style="list-style-type: none"> Determine the square root of non-perfect squares using a calculator. 	1		
7.N.17	<ul style="list-style-type: none"> Classify irrational numbers as non-repeating/non-terminating decimals. 	1		
7.N.18	<ul style="list-style-type: none"> Identify the two consecutive whole numbers between which the square-root of a non-perfect square whole number less than 225 lies (with and without the use of a number line). 	1		
7.N.19	<ul style="list-style-type: none"> Justify the reasonableness of answers using estimation. 			
Review and Test		2		
Total Days		7		
Unit 4: Algebra				
7.A.1	<ul style="list-style-type: none"> Translate two-step verbal expressions into algebraic expressions. 	3		



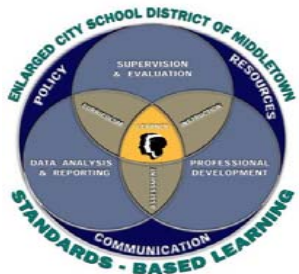
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7.A.5	<ul style="list-style-type: none"> Solve one-step inequalities (positive coefficients only). 	3		
7.G.10	<ul style="list-style-type: none"> Graph the solution set of an inequality (positive coefficients only) on a number line. 	3		
Test		1		
Total Days		7		
Unit 5: Geometry				
7.G.1	<ul style="list-style-type: none"> Calculate the radius or diameter. Give the circumference or area of a circle. 	2		
7.G.2	<ul style="list-style-type: none"> Calculate the volume of prisms and cylinders, using a given formula and a calculator. 	2		
7.G.3	<ul style="list-style-type: none"> Identify the two-dimensional shapes that make up the faces and base of three-dimensional shapes (prisms, cylinders, cones, pyramids). 	3		
7.G.4	<ul style="list-style-type: none"> Determine the surface area of prisms and cylinders, using a calculator and a variety of methods. 	3		
7.G.7	<ul style="list-style-type: none"> Finding a missing angle when given angles of a quadrilateral. 	2		
7.M.11	<ul style="list-style-type: none"> Estimate surface area. 			



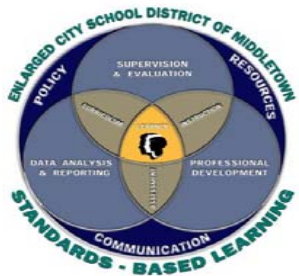
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Review and Test		2		
Total Days		14		
	Unit 6: Measurement			
7.M.2	<ul style="list-style-type: none"> Convert capacity and volume within a given system. 	4		
7.M.3	<ul style="list-style-type: none"> Identify customary and metric units of mass. 	1		
7.M.4	<ul style="list-style-type: none"> Convert mass within a given system. 	2		
7.M.9	<ul style="list-style-type: none"> Determine the tool and technique to measure with an appropriate level of precision: mass. 	1		
7.M.12	<ul style="list-style-type: none"> Determine personal references for customary/metric measures. 	2		
7.M.13	<ul style="list-style-type: none"> Justify reasonableness of the mass of an object. 	1		
Review and Test		2		
Total Days		13		
	Unit 7: Statistics			
7.S.1	<ul style="list-style-type: none"> Identify and collect data using a variety of methods. 	1		



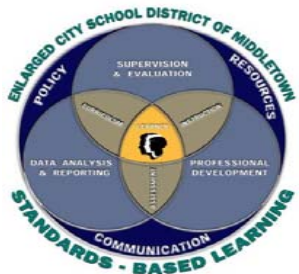
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7.S.2	• Display data in a circle graph.	4		
7.M.8	• Draw central angles in a given circle using a protractor (circle graphs).			
7.S.3	• Convert raw data into double-bar graphs and double-line graphs.	2		
7.S.4	• Calculate the range for a given set of data.	2		
7.S.5	• Select appropriate measures of central tendency.			
7.S.6	• Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs, circle graph).	2		
7.S.7	• Identify and explain misleading statistics and graphs.	1		
7.S.9	• Determine the validity of sampling methods to predict outcomes.	1		
Review and Test		2		
Total Days		14		
Unit 8: Probability				
7.N.1	• Distinguish between the various subsets of real numbers (counting/natural numbers, whole numbers, integers, rational numbers, and irrational numbers).	2		



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7.N.2	<ul style="list-style-type: none"> Recognize the difference between rational and irrational numbers (e.g., explore different approximations). 	1		
7.N.3	<ul style="list-style-type: none"> Place rational and irrational numbers (approximations) on a number line and justify the placement of the numbers. 	1		
7.N.4	<ul style="list-style-type: none"> Develop the laws of exponents for multiplication and division. 	2		
7.N.5	<ul style="list-style-type: none"> Write numbers in scientific notation. 	1		
7.N.6	<ul style="list-style-type: none"> Translate numbers from scientific notation to standard form. 	1		
7.N.7	<ul style="list-style-type: none"> Compare numbers written in scientific notation. 	1		
7.M.10	<ul style="list-style-type: none"> Identify the relationships between relative error and magnitude when dealing with large numbers (e.g., money, population). 	1		
Review and Test		2		
Total Days		11		
7.S.8	<ul style="list-style-type: none"> Interpret data to provide the basis for predictions and to establish experimental probabilities. 	1		
7.S.9	<ul style="list-style-type: none"> Determine the validity of sampling methods to predict outcomes. 			



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7.S.10	<ul style="list-style-type: none"> Predict the outcome of an experiment. 	4		
7.S.11	<ul style="list-style-type: none"> Design and conduct an experiment to test predictions. 			
7.S.12	<ul style="list-style-type: none"> Compare actual to predicted results. 	4		
Review and Test		2		
Total Days		7		
Unit 9A: Algebra-Part 2A				
7.A.3	<ul style="list-style-type: none"> Identify a polynomial as an algebraic expression containing one or more terms. 	1		
7.A.2	<ul style="list-style-type: none"> Add and subtract monomials with exponents of one. 	5		
7.A.4	<ul style="list-style-type: none"> Solve multi-step equations by combining like terms, using distributive property, or moving variables to one side of the equation. 	10		
Open Book Test		1		
Total Days		17		
Unit 9B: Algebra-Part 2B				
7.A.7	<ul style="list-style-type: none"> Draw a graphic representation of a pattern from an equation or table of data. 	2		
7.A.8	<ul style="list-style-type: none"> Create algebra patterns using charts/tables, 	3		



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	graphs, equations, and expressions.			
7.A.9	<ul style="list-style-type: none"> Build a pattern to develop a rule for determining the sum of the interior angles of polygons. 	1		
7.A.10	<ul style="list-style-type: none"> Write an equation to represent a function from a table of values. 	3		
Review and Test (Parts 2A & 2B)		2		
Total Days		8		
Unit 10: Geometry-Part 2				
7.G.5	<ul style="list-style-type: none"> Identify the right angle, hypotenuse, and legs of a right angle. 	1		
7.G.6	<ul style="list-style-type: none"> Explore the relationship between the lengths of the three sides of a right triangle to develop the Pythagorean Theorem. 	1		
7.G.8	<ul style="list-style-type: none"> Use the Pythagorean Theorem to determine the unknown length of a side of a right triangle. 	4		
7.G.9	<ul style="list-style-type: none"> Determine whether a given triangle is a right triangle by applying the Pythagorean Theorem using a calculator. 	2		
Test		1		
Total Days		9		



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	Unit 11: Measurement-Part 2			
7.M.1	• Calculate distance using a map scale.	4		
7.M.5	• Calculate unit price using proportions.	3		
7.M.6	• Compare unit prices.			
7.M.7	• Convert money between different currencies with the use of an exchange table and a calculator.	2		
Quiz		1		
Total Days		10		