



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

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



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



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<b>Review and Test</b>		<b>3</b>		
<b>Total Days</b>		<b>23</b>		
<b>Unit 3: Operations</b>				
7.N.15	<ul style="list-style-type: none"> <li>Recognize and state the value of the square root of a perfect square (up to 225).</li> </ul>	2		
7.N.16	<ul style="list-style-type: none"> <li>Determine the square root of non-perfect squares using a calculator.</li> </ul>	1		
7.N.17	<ul style="list-style-type: none"> <li>Classify irrational numbers as non-repeating/non-terminating decimals.</li> </ul>	1		
7.N.18	<ul style="list-style-type: none"> <li>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).</li> </ul>	1		
7.N.19	<ul style="list-style-type: none"> <li>Justify the reasonableness of answers using estimation.</li> </ul>			
<b>Review and Test</b>		<b>2</b>		
<b>Total Days</b>		<b>7</b>		
<b>Unit 4: Algebra</b>				
7.A.1	<ul style="list-style-type: none"> <li>Translate two-step verbal expressions into algebraic expressions.</li> </ul>	3		



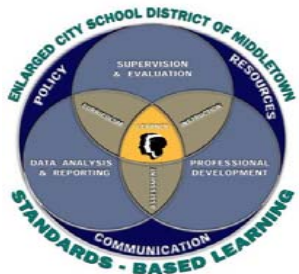
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7.A.5	<ul style="list-style-type: none"> <li>Solve one-step inequalities (positive coefficients only).</li> </ul>	3		
7.G.10	<ul style="list-style-type: none"> <li>Graph the solution set of an inequality (positive coefficients only) on a number line.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



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<b>Review and Test</b>		<b>2</b>		
<b>Total Days</b>		<b>14</b>		
	<b>Unit 6: Measurement</b>			
7.M.2	<ul style="list-style-type: none"> <li>Convert capacity and volume within a given system.</li> </ul>	4		
7.M.3	<ul style="list-style-type: none"> <li>Identify customary and metric units of mass.</li> </ul>	1		
7.M.4	<ul style="list-style-type: none"> <li>Convert mass within a given system.</li> </ul>	2		
7.M.9	<ul style="list-style-type: none"> <li>Determine the tool and technique to measure with an appropriate level of precision: mass.</li> </ul>	1		
7.M.12	<ul style="list-style-type: none"> <li>Determine personal references for customary/metric measures.</li> </ul>	2		
7.M.13	<ul style="list-style-type: none"> <li>Justify reasonableness of the mass of an object.</li> </ul>	1		
<b>Review and Test</b>		<b>2</b>		
<b>Total Days</b>		<b>13</b>		
	<b>Unit 7: Statistics</b>			
7.S.1	<ul style="list-style-type: none"> <li>Identify and collect data using a variety of methods.</li> </ul>	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		
<b>Review and Test</b>		<b>2</b>		
<b>Total Days</b>		<b>14</b>		
<b>Unit 8: Probability</b>				
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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<b>Review and Test</b>		<b>2</b>		
<b>Total Days</b>		<b>11</b>		
7.S.8	<ul style="list-style-type: none"> <li>Interpret data to provide the basis for predictions and to establish experimental probabilities.</li> </ul>	1		



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7.S.9	<ul style="list-style-type: none"> <li>Determine the validity of sampling methods to predict outcomes.</li> </ul>			
7.S.10	<ul style="list-style-type: none"> <li>Predict the outcome of an experiment.</li> </ul>	4		
7.S.11	<ul style="list-style-type: none"> <li>Design and conduct an experiment to test predictions.</li> </ul>			
7.S.12	<ul style="list-style-type: none"> <li>Compare actual to predicted results.</li> </ul>	4		
<b>Review and Test</b>		<b>2</b>		
<b>Total Days</b>		<b>7</b>		