

## West Iron County Schools - Curriculum Map

Name of Teacher: Mrs. Sacheck

Grade: 6

Subject of Course: Mathematics Course I

	<b><u>Content</u></b> (The What of Teaching: Topics, Themes, Issues, Concepts)	<b><u>Skills</u></b> (What exactly we want the students to know about the content)	<b><u>Essential Questions</u></b> (Questions for students that reflect the skills we want them to learn)	<b><u>Benchmarks Addressed</u></b> (Reference to <u>The Michigan Curriculum Framework</u> – Should match the skills)	<b><u>Assessment</u></b> (Evidence of learning)	<b><u>Instructional Strategies</u></b> (How we teach – Resources, Specific Steps in Instruction, etc.)
September	<p>Numbers and Operations</p> <p>Use Exponents</p> <p>Measurement</p> <p>Geometry</p> <p>Data and Probability</p>	<p>Identify the place value positions of each digit in whole numbers.</p> <p>Express whole numbers in words or numerals.</p> <p>Compare, order, round, and estimate whole numbers.</p> <p>Identify and use the properties of addition</p> <p>Identify and use exponents.</p> <p>Convert within</p>	<p>What name do we give to the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9?</p> <p>How can we determine what value to give a digit in a numeral?</p> <p>How do we decide which number is lesser or greater when we compare two numbers?</p> <p>What does is the difference between rounding and estimating?</p> <p>How do you</p>	<p>N.ME.06.05</p> <p>N.FL.06.10</p> <p>N.ME.06.16</p> <p>M.UN.06.01</p> <p>M.PS.06.02</p> <p>M.TE.06.03</p> <p>G.GS.06.01</p> <p>G.GS.06.02</p> <p>G.TR.06.03</p> <p>D.PR.06.01</p> <p>D.PR.06.02</p>	<p>Journal writing</p> <p>Worksheets</p> <p>Participation in class discussion</p> <p>Tests</p> <p>Quizzes</p> <p>Projects</p>	<p>Lecture</p> <p>Notes</p> <p>Cooperative Groups</p> <p>Scientific Calculators</p> <p>Vocabulary</p> <p>Computer Lab</p> <p>Versa Tiles</p>

		<p>measurement systems.</p> <p>Find volume.</p> <p>Understand and apply basic properties of lines, angles and triangles.</p> <p>Understand the concept of congruence and basic transformations.</p> <p>Understand the concept of probability.</p>	<p>convert a metric measurement from one unit to another?</p> <p>How do you decide whether to multiply or divide?</p> <p>How do you find the area of a triangle?</p> <p>What does a tree diagram show?</p> <p>What is the counting principle?</p> <p>How do you find the probability of an event?</p>			
October	Number Theory	<p>Use divisibility of whole numbers.</p> <p>Identify prime and composite numbers.</p> <p>Write prime factorization.</p> <p>Find GCF and LCM for two or more numbers?</p>	<p>What are the Rules of Divisibility?</p> <p>What are factors of whole numbers?</p> <p>What do we identify a number that has exactly two factors?</p> <p>What do we identify a number that has three or</p>	N.ME.06.16	<p>Journal writing</p> <p>Participation in class discussion</p> <p>Quizzes</p> <p>Tests</p> <p>Worksheets</p> <p>Projects</p>	<p>Lecture</p> <p>Notes</p> <p>Cooperative groups</p> <p>Transparencies</p> <p>Scientific calculators</p> <p>Vocabulary</p> <p>Computer lab</p>

			<p>more factors?</p> <p>How do we identify factors that are the same for different numbers?</p> <p>How do we find the greatest common factor for several numbers?</p> <p>What are multiples of whole numbers?</p> <p>What do we call multiples that are the same for different numbers?</p> <p>How can we find the least common multiple for several numbers?</p>			Versa Tiles
	Understand the coordinate plane	<p>Use subtraction to solve inequalities.</p> <p>Use addition to solve inequalities.</p> <p>Use division to solve inequalities.</p> <p>Use multiplication to solve inequalities.</p> <p>To plot ordered pairs of integers.</p> <p>To identify points in all four quadrants.</p>		A.RP.06.02		
November	The Decimal System	<p>Read, write, compare, order and round decimals.</p> <p>Add or subtract decimals.</p>	<p>What symbol do we use to show a number written as a decimal?</p> <p>What procedure do we use in adding or subtracting</p>	<p>N.ME.06.06</p> <p>N.ME.06.10</p> <p>N.ME.06.14</p> <p>N.ME.06.15</p>	<p>Journal writing</p> <p>Participation in class discussion</p> <p>Projects</p> <p>Quizzes</p>	<p>Lecture</p> <p>Notes</p> <p>Cooperative Groups</p> <p>Transparencies</p>

		Estimate decimal sums and differences.  Solve problems involving decimals.	decimals?  What do you do if the subtrahend has more digits to the right of the decimal point than the minuend?		Tests  Worksheets	Scientific calculators  Vocabulary  Computer lab  Versa Tiles
December	The Decimal System	Multiply and divide decimals.  Round decimal quotients.  Estimate decimal products and quotients.	Can zeros be annexed to the right of a decimal point without changing the value?  What determines the number of digits to the right of the decimal point in a product?  What procedure is used when dividing decimals? What is the pattern for multiplying or dividing by 10, 100, and 1000?	N.ME.06.06  N.ME.06.10  N.ME.06.14  N.ME.06.15	Journal writing  Participation in class discussion  Projects  Quizzes  Tests  Worksheets	Lecture  Notes  Cooperative Groups  Transparencies  Scientific calculators  Vocabulary  Computer lab  Versa Tiles
January	Adding and Subtracting Fractions	Add or subtract fractions with like denominators.	What are like and unlike terms?  What relationship	N.FL.06.03  N.FL.06.07	Journal writing  Participation in class discussion	Lecture  Notes

		<p>Add or subtract fractions with unlike denominators</p> <p>Add or subtract mixed numbers.</p>	<p>is the LCD to the LCM of given denominators?</p>	<p>N.FL.06.10</p> <p>N.FL.06.11</p> <p>N.FL.06.14</p> <p>N.FL.06.18</p>	<p>Projects</p> <p>Worksheets</p> <p>Quizzes</p> <p>Tests</p>	<p>Cooperative Groups</p> <p>Transparencies</p> <p>Scientific Calculators</p> <p>Vocabulary</p> <p>Versa Tiles</p>
February	Multiplying and Dividing Fractions	<p>Understanding equality.</p> <p>Multiply and divide fractions and mixed numerals.</p> <p>Interchange fractions, mixed numerals and decimals.</p> <p>Understand division of fractions as the inverse of multiplication.</p>	<p>How do you multiply fractions?</p> <p>Explain how to multiply mixed numbers?</p> <p>What is a reciprocal?</p> <p>What does it mean for two numbers to be reciprocals?</p> <p>How do you use reciprocals when dividing a fraction?</p>	<p>N.MR.06.01</p> <p>N.FL.06.02</p> <p>N.MR.06.03</p> <p>N.ME.06.05</p> <p>N.ME.06.06</p> <p>N.ME.06.07</p>	<p>Journal writing</p> <p>Participation in class discussion</p> <p>Projects</p> <p>Worksheets</p> <p>Quizzes</p> <p>Tests</p>	<p>Lecture</p> <p>Notes</p> <p>Cooperative Groups</p> <p>Transparencies</p> <p>Scientific Calculators</p> <p>Vocabulary</p> <p>Versa Tiles</p>
March	Ratios, Proportions and Percents	<p>Find equivalent ratios by scaling up or scaling down.</p>	<p>What is a ratio?</p> <p>What are equivalent ratios?</p>	<p>N.ME.06.11</p> <p>N.FL.06.12</p> <p>N.MR.06.13</p>	<p>Journal writing</p> <p>Participation in class</p> <p>Projects</p>	<p>Lecture</p> <p>Notes</p> <p>Cooperative</p>

		<p>Understanding proportions.</p> <p>Solve contextual problems involving percentages such as sales taxes and tips.</p>	<p>What is a rate?</p> <p>What is a proportion?</p> <p>How can you use cross products to identify proportions?</p> <p>How can you use a scale to find actual dimensions of a model?</p> <p>How can you use a proportion to find a part of a whole?</p> <p>How do you find the total cost of an item with sales tax?</p>	<p>N.FL.06.14</p> <p>N.FL.06.15</p>	<p>Worksheets</p> <p>Quizzes</p> <p>Tests</p>	<p>Groups</p> <p>Transparencies</p> <p>Scientific Calculators</p> <p>Vocabulary</p> <p>Versa Tiles</p>
April	Integers	<p>Comparing and Ordering Integers.</p> <p>Add and Subtract Integers.</p> <p>Multiply and Divide Integers.</p>	<p>What are integers?</p> <p>What is the difference between an opposite number and an absolute value?</p> <p>How can you compare integers?</p> <p>How would you add integers with different signs?</p>	<p>N.MR.06.08</p> <p>N.FL.06.09</p> <p>N.FL.06.10</p>	<p>Journal writing</p> <p>Worksheets</p> <p>Participation in class discussion</p> <p>Quizzes</p> <p>Tests</p> <p>Projects</p>	<p>Lecture</p> <p>Notes</p> <p>Cooperative Groups</p> <p>Scientific Calculators</p> <p>Vocabulary</p> <p>Computer Lab</p> <p>Versa Tiles</p>

			<p>What is the rule for subtracting integers?</p> <p>What are the rules for multiplying two integers?</p> <p>What are the rules for dividing two integers?</p>			
May	Equations and Inequalities	<p>Relate simple linear equations with integer coefficients.</p> <p>Understand that adding or subtracting the same number to both sides of an equation creates a balance.</p> <p>Understand that multiplying or dividing the same number to both sides of an equation creates a balance.</p>	<p>How do you test to see if a number is a solution to an inequality?</p> <p>How do you solve a one-step it is equality?</p> <p>What is the Golden Rule of algebra?</p>	<p>A.FO.06.03</p> <p>A.FO.06.04</p> <p>A.FO.06.05</p> <p>A.FO.06.06</p> <p>A.FO.06.07</p> <p>A.FO.06.11</p> <p>A.FO.06.12</p> <p>A.FO.06.13</p> <p>A.FO.06.14</p>	<p>Journal writing</p> <p>Worksheets</p> <p>Participation in class discussion</p> <p>Tests</p> <p>Quizzes</p> <p>Projects</p>	<p>Lecture</p> <p>Notes</p> <p>Cooperative groups</p> <p>Scientific calculators</p> <p>Vocabulary</p> <p>Computer Lab</p> <p>Versa Tiles</p>