West Iron County Schools - Curriculum Map

Name of Teacher: Mrs. LaVacque

Grade: 5

Subject of Course: Mathematics Course I

	Content (The What of Teaching: Topics, Themes, Issues, Concepts)	**Skills** (What exactly we want the students to know about the content)	**Essential Questions** (Questions for students that reflect the skills we want them to learn)	**Benchmarks Addressed** (Reference to The Michigan Curriculum Framework – Should match the skills)	**Assessment** (Evidence of learning)	**Instructional Strategies** (How we teach – Resources, Specific Steps in Instruction, etc.)
September October	Place value, Adding and Subtracting of whole numbers and decimals	Write decimals in standard, word, and expanded form through thousandths, identify the value of digits in decimal numbers, and name equivalent decimals. Use place-value ideas to write multiples of 100, 1,000, and 10,000 in different ways. Round whole numbers through millions and decimals through thousandths.	How can you represent decimals? What are equivalent decimals? How can you name the same number in different ways? How can you add and subtract mentally? How can you round whole numbers and decimals? How can you add	N.ME.05.08 N.MR.05.15 N.FL.05.20	Daily assignments Participation in class discussion Tests Quizzes Group work	Lecture Notes Cooperative Groups Scientific Calculators Vocabulary

		Compute sums and differences of decimals involving tenths, hundredths, and thousandths. Tell whether and why the work shown for given problems is correct or not.	and subtract decimals? What are the last steps in solving a problem?			
November	Multiplying whole numbers and decimals	Mentally compute products of whole numbers using patterns and multiplication properties. Use the standard algorithm to multiply numbers by one- and two-digit numbers. Use organized lists to solve problems and write answers in complete sentences. Mentally multiply any decimal by a power of ten. Multiplying whole numbers and decimals, and multiplying	How can properties help you multiply more easily? How do you multiply by one- and two-digit numbers? How can you make an organized list to solve problems? How can you multiply whole numbers by decimals? How do you multiply decimals by decimals? When do you insert extra zeros in the products?	N.FL.05.04 N.FL.05.05 N.FL.05.15 N.FL.05.17 N.FL.05.20	Daily assignments Participation in class discussion Quizzes Tests Worksheets Group work	Lecture Notes Cooperative groups Transparencies Scientific calculators Vocabulary

		decimals and decimals are similar to multiplying whole numbers.				
December	Dividing with one-digit divisors	Multiplication and division are inverse operations.	How are multiplication and division related?	N.MR.05.01	Daily Assignments	Lecture
				N.MR.05.02	Participation in class discussion	Notes
		Patterns can be identified by using given elements, and can be filled in or extended.	What are patterns?	N.MR.05.03		Cooperative Groups
			Why use division?	N.MR.05.05	Quizzes	
			What are the steps for dividing?	N.MR.05.06	Tests	Transparencies
		Division with three-digit divisors can be modeled using money.		N.MR.05.07	Worksheets	Scientific calculators
			How can you check division?	N.MR.05.20	Group work	
January		Basic facts, place-value patterns, and estimation can help you divide a 3-digit number by a 1-digit number.	When do you write a zero in the quotient?			Vocabulary
			How can you divide money?			
		When a number is divisible by	How can you find all the factors of a number?			

		another number, there is no remainder. Divisibility rules can help in solving some problems mentally.	How can you tell if a number is prime or composite How can you write a number as a product of prime factors			
February	Dividing with two-digit divisors	Find the quotients of division problems whose dividends and divisors are multiples of 10 where the division involves a basic fact. Solve problems using the Try, Check and, Revise strategy. Use the standard algorithm to divide three- and four-digit whole numbers by two-digit divisors. Divide numbers whose quotients include zeros. Divide decimal numbers by 10, 100, and 1,000	How can you divide mentally by multiples of 10? How do you use the Try, Check, and Revise strategy to solve a problem? How do you divide larger numbers? When is a zero placed in the quotient? How can you divide by 10, 100, and 1,000? How do you divide money? How do you divide decimals by whole numbers?	N.FL.05.06 N.FL.05.16 N.FL.05.05 N.FL.05.02 N.FL.05.20	Daily assignments Participation in class discussion Group work Quizzes Tests Worksheets	Lecture Notes Cooperative Groups Transparencies Scientific calculators Vocabulary

March	Data, Graphs, and Probability	Make double bar graphs to represent data. Make line graphs to represent data, and read and interpret given line graphs. Find the mean, median, mode, and range of a set of data, and choose the measure that best represents a given set of data. Interpret line and double bar graphs. Describe trends in data represented by the graphs.	How do you read a bar graph? How do you read a line graph? When might you make a graph? How can data be described by a single number? How do you write a good comparison?	D.RE.05.01 D.RE.05.02 D.RE.05.03 D.RE.05.03 D.RE.05.03 D.RE.05.03 D.RE.05.03	Daily assignments Worksheets Participation in class discussion Group work Quizzes Tests	Lecture Notes Cooperative Groups Transparencies Scientific Calculators Vocabulary
	Geometry	Measure, draw, and classify angles. Identify relationships between parts of a circle. Identify and classify polygons, triangles, and quadrilaterals.	How can you measure angles? How can you classify angles? What are the names of segments and angles related to a circle? What are the names of polygons?	G.GS.05.02 G.GS.05.04 G.GS.05.05 G.GS.05.06 G.GS.05.07 G.GS.05.01		

		Identify and classify triangles. Determine whether a pair of congruent figures is related by a slide (translation), flip (reflections), or turn (rotation).	How do you classify triangles and quadrilaterals? How can you move a figure?			
April	Fraction concepts	Division can be used to divide objects into equal parts where the part are fractions of a whole. Solve problems involving too much information by using only the information needed, and decide when there is not enough information to solve a problem. Identify fractions that are equivalent and find fractions equivalent to a given fractions using models and/or a computational procedure.	How can you divide 3 objects into equal parts? How do you know if you have enough information to solve a problem? How do you find equivalent fractions?	N.ME.05.10 N.FL.05.06 N.ME.05.11 N.FL.05.20	Daily assignments Worksheets Participation in class discussion Group work Quizzes Tests	Lecture Notes Cooperative Groups Transparencies Scientific Calculators Vocabulary

		Fraction Operations	Add and subtract fractions with like and unlike denominators.	How do you add or subtract fractions with like and unlike denominators?	N.FL.05.18 N.FL.05.14 N.MR.05.21		
			Find a common denominator for two fractions.	How can you find the least common denominator of two fractions?	N.FL.05.13		
			Solve problems that require finding the original times, measurements, or quantities that led to result that is given.	How do you work backward to solve a problem?			
			Use models or mental math to divide fractions.	How can you use models to show division of fractions?			
May		Measurement	Change between one customary unit of length and another, and add and subtract customary units of length.	How can you change from one customary unit of length and another?	M.UN.05.04 M.TE.05.06	Daily assignments Worksheets Participation in class discussion Group work Quizzes Tests	Lecture Notes Cooperative Groups Transparencies Scientific Calculators Vocabulary
			Change among measurements in metric units of length.	How can you change from one metric unit to another?			
			Find the area of a triangle by using a formula, and find a	How can you use a formula to find the area of a triangle?			

		missing length when the area and other dimension are known.			
	Measuring Solids	Use cubes and a formula to find the volume of rectangular prisms.	How do you measure how much space something occupies?	M.UN.05.02 M.UN.05.04 M.UN.05.08	
		Change among the customary units of capacity and add and subtract customary units of capacity.	How can you measure a liquid?	M.UN.05.09 M.UN.05.10	
		Estimate and measure capacity using metric measures, and change millimeters to liters and vice versa.	What are some metric units of capacity?		
		Change between customary units of weight, and add and subtract customary units of weight.	How can you measure how light or heavy something is?		
		Estimate and measure mass using metric measures and	How can you change units of mass? \		

	Ratio, Proportion, and Percent	change between these measures. Read and write ratios for various kinds of comparisons, and tell which situation represents a ratio that is a fraction and which represents a ratio that is not a fraction. Use a table to generate and write equal ratios, and tell if two ratios form a proportion. Write a percent for a given situation on a 100-grid, and create a 100-grid that show various percents.	How can you use math to compare quantities? What are equal ratios and how can you find them? What does percent mean?	N.ME.05.23 N.ME.05.22 N.ME.05.08		