NORTH MAC INTERMEDIATE SCHOOL CURRICULUM GUIDE

Teachers: Third Grade

Grade Level: 3

Course: Math

<u>Course Aims</u>: Students will actively participate in instruction that will develop mathematical knowledge and numerical relationships through classifying, organizing, grouping, manipulating, reading, writing, and communicating about their math work.

<u>Course Description</u>: Math instruction in the third grade will reinforce skills and introduce new skills to develop students' knowledge and ability to solve math problems. Numeration and order concepts of integers, positive and negative numbers, and equivalent fractions will be taught. Measurement skills will include working with area, perimeter, diameter, circumference and temperature. Operationally, students will memorize multiplication and division facts, identify and find factors of numbers and products of two-digit numbers. In geometry, students will learn to identify points, segments, rays, and lines. They will construct and measure angles. Students will begin to use variables, parentheses, missing addends, and missing factors as they begin the study of algebra.

<u>Textbook:</u> Title: Everyday Mathematics ISBN: 978-0-07-657720-0 Publisher: McGraw-Hill Companies Inc. Publication Date: 2012

<u>Assessment:</u> Unit Written Assessment, Open Response, White Board, Teacher Observation, Journal Pages, Home Links, Fast Math, Rocket Math, Games

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QUARTER: First

COURSE: Math

Content	Assessment	Common Core	Essential Questions
Unit 1: Routines, Review, andAssessment• Numbers and Number Sequences• Number Grids	Unit Written Assessment Open Response White Board	Common Core SMP1-8 3.NBT.1, 3.NBT.2	Can I count money? Can I count by 2's and 10's? Can I complete Frames-and- Arrows puzzles?
 Tools for Mathematics Analyzing and Displaying Data Equivalent Names The Language of Chance Events 	Teacher Observation Journal Pages Home Links Fast Math Rocket Math Games	3.MD.1, 3.MD.3 3.OA.9	Can I write names in name collection boxes? Can I tell time? Can I make tally charts and bar graphs?
Finding DifferencesExtended Response			

Quarter: First

Content	Assessment	Common Core	Essential Questions
Unit 2: Adding andSubtracting Whole Numbers• Fact Families• Fact Families• Extensions of Addition and Subtraction Facts• Addition and Subtraction• Parts-and-Total Number Stories• Change Number Stories• Comparison Number	Assessment Unit Written Assessment Open Response White Board Teacher Observation Journal Pages Home Links Fast Math Rocket Math Games	<i>Common Core</i> SMP1 – 8 3.OA.8, 3.OA.9 3.NBT.1, 3.NBT.2	<i>Essential Questions</i> Can I solve extended addition and subtraction facts? Can I complete a "What's My Rule?" table for addition and subtraction? Can I use a number story diagram for addition and subtraction? Can I use the counting-up
 Comparison Number Stories Partial-Sums Algorithm Subtraction Algorithms Addition with Three or More Addends Extended Response 			

Quarter: First

Content	Assessment	Common Core	Essential Questions
 Unit 3: Linear Measures and Area A Unit of Length. Measure with a Ruler Standard Linear Measures Pattern Block Toss Experiment Line Plot Perimeter Area Number Models for Area Diameter and Circumference Extended Response 	Unit Written Assessment Open Response White Board Teacher Observation Journal Pages Home Links Fast Math Rocket Math Games	SMP1-8 3.NF.2, 3.NF.2a &b 3.NF.3a, 3.G.1 3.MD.1, 3.MD.4, 3.MD.5, 3.MD.5a, 3.MD.5b, 3.MD.6, 3.MD.7a, 3.MD.7b, 3.MD.8	Can I make estimates? Can I solve number stories? Can I measure line segments? Can I make line plots? Can I find perimeter and area? Can I find the area of rectangles?

Quarter: Second

Quarter: Second

Unit 5: Place Value in Whole Numbers and Decimals		
Place Value Through Ten- Thousands Open Response SMP1-8	D.1, 3.MD.3, 3.MD.4, 3. 3	Can I read and write very large numbers? Can I read and write decimals? Can I use base 10 blocks to work with decimals? Can I add and subtract 2 digit numbers? Can I make estimates to check if my answer makes sense? Can I add and subtract extended facts?

Quarter: Third

Content	Assessment	Common Core	Essential Questions
Unit 6: Geometry • Drawing Angles • Measuring Angles • Symmetry • Congruence • Line Segments • Decimals • Polyhedrons • Multiplication/Division Facts • Extended Response	Unit Written Assessment Open Response White Board Teacher Observation Journal Pages Home Links Fast Math Rocket Math Games	SMP2,4,5-7 3.MD.8 3.G.1	Can I name polygons? Can I name three dimensional figures? Can I draw line segments, rays, and lines? Can I identify right angles? Can I identify parallel and intersecting line segments? Can I find and draw lines of symmetry?

Quarter: Third

Content	Assessment	Common Core	Essential Questions
 Unit 7: Multiplication and Division Patterns in Products Multiplication Survey Fact Power Number Models with Parentheses Apply Number Models with Parentheses Extend Multiplication and Division Facts Estimate Costs Extend Facts: Products of Tens Explore Ratios and Geometric Figures Extended Response 	Unit Written Assessment Open Response White Board Teacher Observation Journal Pages Home Links Fast Math Rocket Math Games	SMP1-8 3.OA.1, 3.OA.2, 3.OA.3, 3.OA.4, 3.OA.5, 3.OA.6, 3.OA.7, 3.OA.8, 3.OA.9 3.NBT.1, 3.NBT.2, 3.NBT.3	Can I use arrays to help answer questions? Do I know multiplication facts through 100? Can I share things equally? Can I draw parallel and intersecting lines? Can I solve 3-digit addition problems? Can I make estimates to check problems?

Quarter: Third

Content	Assessment	Common Core	Essential Questions
 Unit 8: Fractions Name Parts with Fractions Blocks-in-a-Bag Experiment Explore Fractions Use Number Line Posters to Identify Fractions Equivalent Fractions Fractions Greater than One Fractions in Number Stories Extended Response Multiplication Facts Division Facts 	Unit Written Assessment Open Response White Board Teacher Observation Journal Pages Home Links Fast Math Rocket Math Games	SMP1-8 3.NF.1, 3.NF.2.a,b, 3.NF.3.a-d 3.G.2 3.OA.3, 3.OA.5 3.MD.4	Can I read and write fractions? Can I compare fractions to one- half? Can I find fractional parts of collections? Can I write fractions on a number line? Can I complete a symmetrical shape? Can I tell the value of each digit in a decimal?

Quarter: Fourth

Quarter: Fourth

Content	Assessment	Common Core	Essential Questions
 Unit 10: Measurement and Data Review units and tools for measuring length in US customary and metric systems. Volume Measure the weight of objects. Explore weight and volume by measuring objects' weight and volume. Measure liquid volume in terms of capacity. Interpret a set of data- focusing on the mean and the median. Calculate the mean as a method of interpreting a set of data. Memory keys on a calculator. Use mean, median, and mode as a method of interpreting data. Plot coordinates on a coordinate grid. Multiplication/Division Facts Extended Response 	Unit Written Assessment Open Response White Board Teacher Observation Journal Pages Home Links Fast Math Rocket Math Games	SMP1-8 3.MD.1,2,3,4,5,5b,7,7a-b,8 3.OA.3,5,7,8 3.G.1 3.NF.1,3,3a,3b,3d 3.NBT.2,3	Can I measure to the nearest half inch and half centimeter? Can I make a frequency table to show data? Can I find the median, mode, and mean of a set of data? Can I find fractional parts of a collection? Can I multiply three digit numbers by one digit numbers?