Trimester 1

Unit 1 - Number Sense: Place Value, Comparing and Ordering Numbers, Addition and Subtraction

Students will be able to:

1. Students will be able to read and write whole numbers in expanded, standard, and word form within 10,000.
2. Students will be able to order a set of whole numbers from least to greatest or greatest to least within 10,000 and sets no more than 4 numbers.
3. Students will be able to round two and three digit numbers to the nearest ten or hundred.
4. Students will be able to round to check the reasonableness of their answer to an addition or subtraction problem.
5. Students will be able to add two and three digit whole numbers within 1,000.
6. Students will be able to subtract two and three digit numbers from three digit whole numbers.
7. Students will be able to identify the missing symbol in an addition or subtraction equation.
8. Students will be able to identify arithmetic patterns (including patterns in the addition table) and/or explain them using properties of operations.

Timeframe	Resources
15 Days	**<u>Digital/Print Resources</u>** ● MiF Chapter 1- Place Value ● MiF Chapter 2 - Rounding ● MiF Chapter 3 ● MiF Chapter 4 ● MiF Chapter 5 **<u>Materials/Manipulatives</u>** ● Base 10 Blocks ● Place Value Mats ● Place Value Cards
Assessment Window	
Unit 1A Summative Assessment - Early Sept. Unit 1B Summative Assessment - Mid/Late Sept.	

	<u>Technology Resources</u> ● Recommended IXL skills covered in this unit: ○ A. 9, 10, 11, 12 Comparing and Ordering ○ B. 1, 2, 4, 7, 8, 9 Place Value ○ C. 1, 3, 4, 6, 7 Addition ○ D. 1, 3, 7 Subtraction ○ M. 8 Addition and Subtraction word problems ○ P. 1, 2, 3 Rounding 7, 10 Rounding word problems ● Match Fish Tank- Unit 1 - Please note teacher creates a free account. ● Student Centered Mathematics - Fact Resources, etc.

<table>
<tr><th colspan="3">Unit 2 - Multiplication & Division</th></tr>
<tr><td colspan="3">Students will be able to:
1. Students will be able to find the product of two factors up to 10 x 10.
2. Students will be able to identify arithmetic patterns in multiplication and describe them using properties of operations.
3. Students will be able to model a multiplication equation using a variety of strategies (array, equal groups, related facts, etc.)
4. Students will be able to apply the associative and commutative properties of multiplication.
5. Students will be able to multiply a whole digit whole number by a two digit multiple of 10, up to 90.
6. Students will be able to solve and represent two-step word problems using multiplication.
7. Students will be able to determine the unknown number in the multiplication or division equation.
8. Students will be able to model division as a multiplication equation.
9. Students will be able to model division for dividends through 50 and divisors and quotients through 10.
10. Students will be able to solve and represent two-step word problems using multiplication and division.
11. Students will be able to solve two-step equations using order of operations.</td></tr>
<tr><td>Timeframe</td><td colspan="2">Resources</td></tr>
<tr><td>20 Days Total

Assessment Window

Unit 2A Summative Assessment - Early/Mid October

Unit 2B Summative Assessment - Mid/Late October</td><td><u>Digital/Print Resources</u>
● MiF Chapter 6 - Multiplication Tables of 6, 7, 8, 9
● MiF Chapter 7 - Multiplication
● Grade 2 MiF Chapter 5 - Multiplication and Division
● Grade 2 MiF Chapter 6 - Multiplication Tables of 2, 5, and 10
● Grade 2 MiF Chapter 15 - Multiplication Tables of 3 and 4</td><td><u>Technology Resources</u>
● Recommended IXL skills covered in this unit:
○ E. 1-8 Entire skill is understanding multiplication
○ F. 1-10 Multiplication facts, skill builders for facts 0-9
○ G. 1, 2, 3, 4 Multiplication fluency for 2, 3, 4, and 5
○ H. 1 & 2 Multiples of 10
○ H. 6 Multiplication word problems
○ I. 1, 2, and 3 Understanding Division/ Equal Groups</td></tr>
</table>

	<u>Materials/Manipulatives</u> ● Graph paper ● Counters	○ N. 5 Properties of Multiplication ● Match Fish Tank- Unit 2 Part 1

<table>
<tr><th colspan="3">Unit 3 - Word Problems with Mixed Operations</th></tr>
<tr><td colspan="3">Students will be able to:
1. Students will be able to solve one and two step word problems using addition, subtraction, multiplication and division.</td></tr>
<tr><td>Timeframe</td><td colspan="2">Resources</td></tr>
<tr><td>10 Days

Assessment Window

Unit 3 Summative Assessment - Early November</td><td><u>Digital/Print Resources</u>
● Greg Tang Math
● MiF Chapter 3
● MiF Chapter 4
● MiF Chapter 5
● MiF Chapter 6 - Multiplication Tables of 6, 7, 8, 9
● MiF Chapter 7 - Multiplication</td><td><u>Materials/Manipulatives</u>
● Graph paper

<u>Technology Resources</u>
● Recommended IXL skills covered in this unit:
○ M. 9 Addition and Subtraction word problems
○ M. 10 Multiplication and Division word problems
○ M. 12 Addition, subtraction, multiplication, and division word problems
○ M. 14 Two-step addition and subtraction word problems
○ M. 15 Two-step multiplication and division word problems
○ M. 16 Two-step mixed operation word problems
● Match Fish Tank- Unit 1 - Please note teacher creates a free account.
● Student Centered Mathematics - Fact Resources, etc.</td></tr>
</table>

<table>
<tr><th colspan="3">Unit 4 - Fractions</th></tr>
<tr><td colspan="3">Students will be able to:
1. Students will be able to demonstrate that a whole is partitioned into a set of equal parts (numerator) that together equal one whole (denominator).
2. Students will be able to represent fractions on a number line, no simplification needed.
3. Students will be able to express whole numbers as a fraction and/or generate fractions that are equal to one whole.
4. Students will be able to recognize and generate equivalent fractions (denominators of 1-4, 6, and 8).
5. Students will be able to compare two fractions with the same denominator (denominators of 1-4, 6, and 8), using the symbols =, >, and < and/or justify their conclusions.
6. Students will be able to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole.</td></tr>
<tr><td>Timeframe</td><td colspan="2">Resources</td></tr>
<tr><td>25 Days

Assessment Window

Unit 4 Summative Assessment - Mid December</td><td><u>Digital/Print Resources</u>
● Greg Tang Math
● MiF Chapter 14 - Fractions

<u>Materials/Manipulatives</u>
● Manipulatives (Fraction Strips)</td><td><u>Technology Resources</u>
● Recommended IXL skills covered in this unit:
○ W. 1, 2, 4, 6, 7, 8, 9, 11, 12 Understanding Fractions (using models and number lines)
○ W. 16 through 20 Fraction word problems
○ X. 1, 2, 3, 5, 6, 8, 9 Equivalent Fractions
○ Y. 1, 2, 4, 6, 8, 10 Comparing Fractions
○ Z. 8 Adding and Subtracting Fractions with Like Denominators</td></tr>
</table>

Unit 5 - Measurement

Students will be able to:

Customary System of Measurement:

1. Use inch, foot, yard, and mile as units of measurement for length.
2. Estimate and measure given lengths.
3. Use referents to estimate lengths.
4. Use ounce, pound, and ton as units of measurement for weight.
5. Read scales in ounces (oz.) and pounds (lb).
6. Estimate and find actual weights of objects by using different scales.
7. Use referents to estimate weight.
8. Measure capacity with cup (c), pint (pt), quart (qt), and gallon (gal).
9. Estimate and find the actual capacity of a container.
10. Relate units of capacity to one another.

Metric System of Measurement:

11. Use centimeter, meter, and kilometer as units of measurement for length.
12. Estimate and measure given lengths.
13. Use referents to estimate lengths.
14. Use grams and kilograms as units of measurement for mass.
15. Read scales in grams (g) and kilograms (kg).
16. Estimate and final actual masses of objects by using different scales.
17. Use referents to estimate mass.
18. Measure capacity with milliliters (mL) and liters (L).
19. Estimate and find the actual capacity of a container.
20. Relate units of capacity to one another.

<table>
<tr><th>Timeframe</th><th colspan="2">Resources</th></tr>
<tr><td>18 Days</td><td rowspan="3"><u>Digital/Print Resources</u>
Greg Tang Math
MiF Chapter 11 - Metric Length, Mass, and Volume
MiF Chapter 15 - Customary Length, Weight, and Capacity</td><td rowspan="3"><u>Materials/Manipulatives</u>
Manipulatives (rulers, scales, measuring cups)
<u>Technology Resources</u>
Recommended IXL skills covered in this unit:
BB. 3, 4, 5, 6, 7 Customary Measurement
BB. 13, 14, 15, 16 Metric Measurement
BB. 21 Appropriate Tool</td></tr>
<tr><td>Assessment Window</td></tr>
<tr><td>Unit 5A Summative Assessment - Mid January

Unit 5B Summative Assessment - Late January</td></tr>
</table>

Unit 6- Number Sense with Comparing Coins and Bills / Making Change & Time

Students will be able to:

1. Students will be able to compare total values of combinations of coins and/or dollar bills up to $5.
2. Students will be able to round amounts of money to the nearest dollar.
3. Students will be able to make change for an amount up to $5.
4. Students will be able to identify the correct coins and bills needed to make a specified amount of change.
5. Students will be able to tell, show, and/ or write time to the nearest minute.
6. Students will be able to compute the elapsed time with a maximum of 60 minutes.

Prerequisite Skills (Review if needed)

1. Students will be able to identify coins and their values.
2. Students will be able to identify bills and their values up to $5.

Timeframe	Resources	
22 Days Assessment Window Unit 6A Summative Assessment - Early February Unit 6B Summative Assessment - Mid/Late February	**Digital/Print Resources** ● Greg Tang Math ● MiF Chapter 2 - Rounding ● MiF Chapter 10 - Money ● MiF Chapter 16 -Time and Temperature	**Materials/Manipulatives** ● Clocks ● Coins & Bills **Technology Resources** ● Recommended IXL skills covered in this unit: ○ S. 1, 2, 3, 4, 5, 6, 7, 8 Money ○ P. 1, 2, 3 Rounding 7, 10 Rounding word problems ○ T. 1 through 7 Time ○ T. 12 Calendar

<table>
<tr><th colspan="3">Unit 7 - Introduction of Quadrilaterals</th></tr>
<tr><td colspan="3">Students will be able to:
1. Students will be able to categorize shapes by their attributes, and identify shared attributes among shapes.
2. Students will be able to explain that shared attributes among shapes can define a larger category of shapes.
3. Students will be able to recognize rectangles, rhombi, and squares as examples of quadrilaterals.
4. Students will be able to draw examples of quadrilaterals that do not belong to the subcategories of rectangles, rhombi, and squares.</td></tr>
<tr><td>Timeframe</td><td colspan="2">Resources</td></tr>
<tr><td>11 Days

Assessment Window

Unit 7 Summative Assessment - Early March</td><td><u>Digital/Print Resources</u>
● Greg Tang Math
● MiF Chapters 17 - Angles and Lines
● MiF Chapters 18 - Two-Dimensional Shapes</td><td><u>Materials/Manipulatives</u>
● Manipulatives (tangrams)
● Rulers
● Graph paper

<u>Technology Resources</u>
● Recommended IXL skills covered in this unit
○ CC. 1, 2, 3, 4, 5, 6, 7, Types of Angles and Lines (Two Dimensional Shapes)
○ DD. 3, 4, 5, 6, 7, 8 Quadrilaterals</td></tr>
</table>

<table>
<tr><th colspan="3">Unit 8 - Area & Perimeter</th></tr>
<tr><td colspan="3">Students will be able to:
1. Students will be able to solve real world and mathematical problems to calculate the perimeter of a polygon given the side lengths, finding an unknown side length.
2. Students will be able to measure areas by counting unit squares (square cm, square m, square in., square ft, and non-standard square units).
3. Students will be able to multiply side lengths to find areas of rectangles in the context of real-world and mathematical problems.</td></tr>
<tr><td>Timeframe</td><td colspan="2">Resources</td></tr>
<tr><td>10 Days

Assessment Window

Unit 8 Summative Assessment - Mid/Late March</td><td><u>Digital/Print Resources</u>
● Greg Tang Math
● Chapter 19 - Area and Perimeter

<u>Materials/Manipulatives</u>
● Graph paper
● Geoboards</td><td><u>Technology Resources</u>
● Recommended IXL skills covered in this unit:
○ FF. 1, 2, 3, 4, 5 Perimeter
○ FF. 7, 9, 10, and 11 Area
● Match Fish Tank- Unit 2 Part 1</td></tr>
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<table>
<tr><th colspan="3">Unit 9 - Creating, Reading & Analyzing Graphs</th></tr>
<tr><td colspan="3">Students will be able to:
1. Students will be able to create a line plot given data after measuring items to the nearest quarter inch.
2. Students will be able to complete a scaled bar graph or pictograph to represent data with scaled categories (scales limited to 1, 2, 5, and 10).
3. Students will be able to solve one and two step word problems using information displayed in a scaled pictograph or bar graph.
4. Students will be able to transfer information from one type of display to another.</td></tr>
<tr><td>Timeframe</td><td colspan="2">Resources</td></tr>
<tr><td>10 Days

Assessment Window

Unit 9 Summative Assessment - Early April</td><td><u>Digital/Print Resources</u>
● Greg Tang Math
● Grade 2 MiF Chapter 17 - Picture Graphs
● MiF Chapter 13 - Bar Graphs and Line Plots</td><td><u>Materials/Manipulatives</u>
● Graph Paper
● Rulers

<u>Technology Resources</u>
● Recommended IXL skills covered in this unit:
○ U. 5, 6, 7, 11 Bar graphs
○ U. 4 & 11 Interpreting Tally Charts and Pictographs
○ U. 8 & 9 Line Plots</td></tr>
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<table>
<tr><th colspan="3">Unit 10 - Greater Multiplication, Division & Symmetry</th></tr>
<tr><td colspan="3">Students will be able to:
1. Demonstrate an understanding of properties of multiplication.
2. Demonstrate an understanding of the relationship between multiplication and division.
3. Multiply greater numbers: two-digit by one-digit and three-digit by one-digit.
4. Use long division to solve basic division problems. (no remainders)
5. Recognize symmetric shapes and draw lines of symmetry.</td></tr>
<tr><td>Timeframe</td><td colspan="2">Resources</td></tr>
<tr><td>24 Days

Assessment Window

Unit 10A Summative Assessment - Mid/Late April

Unit 10B Summative Assessment - Early June</td><td><u>Digital/Print Resources</u>
● Greg Tang Math
● MiF Chapter 7 - Multiplication
● MiF Chapter 8 - Division
● MiF Chapter 18 - Two Dimensional Shapes

<u>Materials/Manipulatives</u>
● Graph Paper
● Counters</td><td><u>Technology Resources</u>
● Recommended IXL skills covered in this unit:
○ G. 5, 6, 8, 14 Multiplication facts 6, 7, 8, 9
○ H. 3, 5, 6, 8, 9 Multiplication of 2 digit by 1 digit and word problems
○ K. 1 Division fact fluency for 2, 3, 4, 5, 10
○ K. 8 Division facts
○ L. 5 Division word problems
○ M. 1 & 2 Mixed operations
○ M. 9 Mixed operations word problems
○ N. 9 & 10 Related facts
○ CC. 8, 9, and 10 Symmetry</td></tr>
</table>