

# TABR Grade 1 Overarching Mathematics Objectives for 2013-2014

## Students will:






- develop fluency with addition and subtraction facts to 20.
- develop a sense of place value by comparing, ordering, adding, and subtracting whole numbers.
- use addition and subtraction to 20 to solve problems.
- measure, graph, and analyze data using tally charts, tables, picture graphs, and bar graphs.
- identify and compare two and three-dimensional shapes, create composite shapes, and partition shapes into equal parts.
- measure, compare, use non-standard units of measurement, and establish money and time sense.
- use algebraic strategies to determine patterns and solve numerical problems.
- collect and organize data in bar graphs and on number lines and determine probability of occurrences.

TRIMESTER	STRANDS/TOPICS	TEXTS AND MATERIALS
1	Operations and Algebraic Thinking ↳ Number and Operations in Base Ten ↳ Geometry	<u>Math Connects, McGraw Hill Publishers</u> <ul style="list-style-type: none"> <li>• <u>Chapters 2-3: Develop Addition and Subtraction Concepts</u></li> <li>• <u>Chapters 5-6: Develop Addition and Subtraction Strategies</u></li> <li>• <u>Chapter 10: Solve Addition and Subtraction Problems</u></li> <li>• <u>Chapter 12: Identify Geometric Figures</u></li> </ul>
2	Operations and Algebraic Thinking ↳ Number and Operations in Base Ten ↳ Measurement and Data	<u>Math Connects, McGraw Hill Publisher</u> <ul style="list-style-type: none"> <li>• <u>Chapter 8: Recognize Number and Patterns</u></li> <li>• <u>Chapter 1: Describe and Compare Numbers</u></li> <li>• <u>Chapter 9: Compare Measurements</u></li> </ul>
3	Number and Operations ↳ Measurement and Data	<u>Math Connects, McGraw Hill Publisher</u> <ul style="list-style-type: none"> <li>• <u>Chapter 9: Compare Measurements</u></li> <li>• <u>Chapter 13: Understand Place Value</u></li> <li>• <u>Chapter 15: Solve Two-Digit Addition and Subtraction Problems</u></li> </ul>

# TABR Grade 2 Overarching Mathematics Objectives for 2013-2014

## Students will:

- perform 2 and 3-digit addition and subtraction computations and use these operations to solve word problems.
- develop mental fluency with addition and subtraction facts to 20.
- develop a sense of place value by comparing, ordering, adding and subtracting whole numbers.
- identify, describe, and compare two and three-dimensional shapes and determine area of a rectangle.
- measure, compare, and use customary and metric units of measurement and will establish money and time sense.
- measure, graph, and analyze data using tallies, line plots, picture graphs, and bar graphs.
- use strategies to solve algebraic problems.
- collect, analyze, and organize data in surveys, picture graphs, line plots, bar graphs, and tally charts.

TRIMESTER	STRANDS/TOPICS	TEXTS AND MATERIALS
1	Operations and Algebraic Thinking  Number and Operations in Base Ten  Measurement and Data	<u>Math Connects: McGraw Hill Publisher</u> Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Chapter 1: Place Value and Patterns</u></li> <li>• <u>Chapter 2: Applying Addition Concepts</u></li> <li>• <u>Chapter 3: Applying Subtraction Concepts</u></li> <li>• <u>Chapter 4: Organize and Use Data</u></li> <li>• <u>Chapter 5: Solve 2-Digit Addition</u></li> <li>• <u>Chapter 6: Slve 2-Digit Subtraction</u></li> </ul>
2	Number and Operations in Base Ten  Measurement and Data	<u>Math Connects: McGraw Hill Publisher</u> Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Chapter 7: Determine Value of Money</u></li> <li>• <u>Chapter 8: Measure Time and Temperature</u></li> <li>• <u>Chapter 9: Model Fractions</u></li> <li>• <u>Chapter 10: Use Place Value to 1000</u></li> </ul>
3	Measurement and Data  Geometry  Number and Operations in Base Ten	<u>Math Connects: McGraw Hill Publisher</u> Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Chapter 11: Understand Geometric Shapes and Spatial Reasoning</u></li> <li>• <u>Chapter 12: Measure Length and Area</u></li> <li>• <u>Chapter 13: Measure Capacity and Weight</u></li> <li>• <u>Chapter 14: Solve 3-Digit Addition and Subtraction</u></li> </ul>

# TABR Grade 3 Overarching Mathematics Objectives for 2013-2014

## Students will:

- add, subtract, multiply and divide whole numbers; identify fractions; and recognize and compare equivalent fractions.
- identify angles, polygons, and two dimensional figures.
- tell and write time; measure time intervals; and measure and estimate volume, mass, and capacity.
- measure, convert, graph, compare, and use linear units; and apply strategies to determine area and perimeter.
- collect, analyze, and organize data through plots, picture and bar graphs, line plots, and tally charts.

TRIMESTER	TOPICS	TEXTS AND MATERIALS
1	Number and Operations in Base 10 ↻ Measurement and Data	Scott Foresman-Addison Wesley <i>Math</i> Grade 3 Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Chapter 1</u>: <i>Data, Graphs &amp; Facts Review</i></li> <li>• <u>Chapter 2</u>: <i>Place Value and Time</i></li> <li>• <u>Chapter 3</u>: <i>Addition of Whole Numbers and Money</i></li> <li>• <u>Chapter 4</u>: <i>Subtraction of Whole Numbers and Money</i></li> </ul>
2	Number and Operations in Base 10 ↻ Operations and Algebraic Thinking ↻ Measurement	Scott Foresman-Addison Wesley <i>Math</i> Grade 3 Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Chapter 5</u>: <i>Multiplication Concepts and Facts</i></li> <li>• <u>Chapter 6</u>: <i>More Multiplication Facts</i></li> <li>• <u>Chapter 7</u>: <i>Division Concepts and Facts</i></li> <li>• <u>Chapter 8</u>: <i>Using Geometry</i></li> </ul>
3	Numbers and Operations-Fractions ↻ Operations and Algebraic Thinking ↻ Measurement and Data ↻ Geometry	Scott Foresman-Addison Wesley <i>Math</i> Grade 3 Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Chapter 9</u>: <i>Multiplying and Dividing</i></li> <li>• <u>Chapter 10</u>: <i>Fractions and Customary Linear Measurements</i></li> <li>• <u>Chapter 11</u>: <i>Decimals and Metric Linear Measurements</i></li> <li>• <u>Chapter 12</u>: <i>Measurement and Probability</i></li> </ul>

# TABR Grade 4 Overarching Mathematics Objectives for 2013-2014

## Students will:

- compare, order, round, add, subtract, multiply and divide whole numbers, fractions and decimals.
- measure, compare and use customary and metric units of measurement to determine length, capacity, mass, weight, perimeter, and area and will expand their money and time sense.
- learn about algebraic strategies and properties to solve expressions and equations.
- identify, compare, and measure lines, line segments, rays, angles and plane figures.

TRIMESTER	STRANDS/TOPICS	TEXTS AND MATERIALS
1	Number and Operations in Base 10 ↳ Measurement	1. Scott Foresman <i>Mathematics 4</i> <ul style="list-style-type: none"> <li>• <u>Chapter 1: Data, Graphs and Facts</u></li> <li>• <u>Chapter 2: Place Value and Time</u></li> <li>• <u>Chapter 3: Addition and Subtraction of Whole Numbers</u></li> <li>• <u>Chapter 4: Multiplication and Division Concepts and Facts</u></li> </ul> 2. Evan Moor <i>Daily Math Practice</i> and <i>Daily Word Problems</i>
2	Number and Operations in Base 10 ↳ Geometry	1. Scott Foresman <i>Mathematics 4</i> <ul style="list-style-type: none"> <li>• <u>Chapter 5: Multiply by 1-Digit Factors</u></li> <li>• <u>Chapter 6: Multiply by 2-Digit Factors</u></li> <li>• <u>Chapter 7: Divide by 1-Digit Factors</u></li> <li>• <u>Chapter 8: Using Geometry</u></li> </ul> 2. Evan Moor <i>Daily Math Practice</i> and <i>Daily Word Problems</i>
3	Numbers and Operations - Fractions ↳ Measurement ↳ Operations and Algebraic Thinking	1. Scott Foresman <i>Mathematics 4</i> <ul style="list-style-type: none"> <li>• <u>Chapter 9: Fractions and Measurement</u></li> <li>• <u>Chapter 10: Fraction Operations</u></li> <li>• <u>Chapter 11: Decimals and Metric Measurement</u></li> <li>• <u>Chapter 12: Divide by 2-Digit Divisors and Probability</u></li> </ul> 2. Evan Moor <i>Daily Math Practice</i> and <i>Daily Word Problems</i>

# TABR Grade 5 Overarching Mathematics Objectives for 2013-2014

## Students will:

- expand their procedural proficiency with whole numbers, fractions, and decimals.
- analyze the properties of two and three dimensional figures and solids, find the volume of prisms and composite figures, and identify and measure angles.
- measure, convert and/or compare customary and metric units of measurement.
- solve algebraic equations with the concept of equality, use algebraic strategies to solve simple and complex problems, and create and interpret graphs.
- analyze data presented in numerous forms.

TRIMESTER	STRANDS/TOPICS	TEXTS AND MATERIALS
1	<p>Number and Operations</p> <p>↻</p> <p>Measurement and Data</p>	<p>1. Scott Foresman <i>Mathematics 5</i></p> <p>Selected Lessons From:</p> <ul style="list-style-type: none"> <li>• Chapter 1: <i>Data, Graphs, Facts Review</i></li> <li>• Chapter 2: <i>Whole Numbers, Decimals</i></li> <li>• Chapter 3: <i>Multiplication of Whole Numbers and Decimals</i></li> <li>• Chapter 4: <i>Division of Whole Numbers and Decimals</i></li> </ul> <p>2. <i>Ace Hands-on Manipulatives Kit</i></p> <p>3. Evan Moor <i>Daily Math Practice 5</i> and <i>Daily Word Problems 5</i></p>
2	<p>Number and Operations</p> <p>↻</p> <p>Operations and Algebraic Thinking</p> <p>↻</p> <p>Geometry</p>	<p>1. Scott Foresman <i>Mathematics 5</i></p> <p>Selected Lessons From:</p> <ul style="list-style-type: none"> <li>• Chapter 4: <i>Division of Whole Numbers and Decimals</i></li> <li>• Chapter 5: <i>2-Digit Divisors</i></li> <li>• Chapter 6: <i>Geometry</i></li> <li>• Chapter 7: <i>Fractions and Mixed Numbers</i></li> <li>• Chapter 8: <i>Fraction Operations</i></li> </ul> <p>2. <i>Ace Hands-on Manipulatives Kit</i></p> <p>3. Evan Moor <i>Daily Math Practice 5</i> and <i>Daily Word Problems 5</i></p>
3	<p>Numbers and Operations</p> <p>↻</p> <p>Measurement and Data</p> <p>↻</p> <p>Operations and Algebraic Thinking</p>	<p>1. Scott Foresman <i>Mathematics 5</i></p> <p>Selected Lessons From:</p> <ul style="list-style-type: none"> <li>• Chapter 9: <i>Multiplying Fractions</i></li> <li>• Chapter 10: <i>Length, Diameter, Area</i></li> <li>• Chapter 11: <i>Measurement</i></li> <li>• Chapter 12: <i>Ratio, Percent, Probability</i></li> </ul> <p>4. <i>Ace Hands-on Manipulatives Kit</i></p> <p>5. Evan Moor <i>Daily Math Practice 5</i> and <i>Daily Word Problems 5</i></p>