

**Grade 2**  
**Math Academic Standards – End of Year**  
**School District of Fort Atkinson**

Conceptual Strand	Skills
Counting	<ul style="list-style-type: none"> <li>▪ Reads, writes and orders whole numbers to 1000 (no visual aid – very minimal teacher prompting)</li> <li>▪ Uses ordinal numbers to 20<sup>th</sup> in verbal and written work</li> </ul>
Estimation	<ul style="list-style-type: none"> <li>▪ Determines number of objects in a set by estimation (&lt;1000)</li> <li>▪ Approximates measurements (weight and length) by using estimation techniques</li> <li>▪ Uses reasonable estimation in problem solving situations</li> </ul>
Addition	<ul style="list-style-type: none"> <li>▪ Recalls basic facts of addition to 18 in written work</li> <li>▪ Uses math strategies (mental math, variables, etc.)</li> <li>▪ Selects and applies algorithms for addition</li> <li>▪ Recognizes the commutative and associative properties for addition</li> <li>▪ Adds money (&gt;\$1.00)</li> <li>▪ Applies concept correctly in story problems</li> <li>▪ Uses symbolic renaming (<math>10 = 9+1 = 8+2</math>)</li> <li>▪ Computes 2-3 digit addition (with and without regrouping) with minimal errors</li> </ul>
Subtraction	<ul style="list-style-type: none"> <li>▪ Recalls the basic facts of subtraction to 18 in written work</li> <li>▪ Uses math strategies (mental math, variables, etc.)</li> <li>▪ Selects and applies algorithms for subtraction</li> <li>▪ Subtracts money (&gt;\$1.00)</li> <li>▪ Applies concept correctly in story problems</li> <li>▪ Uses symbolic renaming (<math>10 = 12-2 = 14-4</math>)</li> <li>▪ Computes 2-3 digit subtraction (with and without regrouping) with minimal errors</li> </ul>
Place Value	<ul style="list-style-type: none"> <li>▪ Represents and explains whole numbers to 1000 using:               <ul style="list-style-type: none"> <li>✓ physical materials</li> <li>✓ number lines</li> <li>✓ verbal descriptions</li> <li>✓ symbolic renaming (<math>10 = 7+3 = 5+5</math>)</li> <li>✓ expanded notation (<math>1000+900+70+2=1972</math>)</li> </ul> </li> <li>▪ Recognizes and uses the concept of greater than, less than and equal to as well as their symbols (<math>&gt;</math>, <math>&lt;</math>, <math>=</math>)</li> </ul>
Patterns	<ul style="list-style-type: none"> <li>▪ Recognizes, creates, and extends patterns (including numbers) in verbal and written form</li> <li>▪ Recognizes that the same pattern can be created and represented in different ways (pictures, tables, charts and graphs)</li> <li>▪ Recalls odd and even numbers</li> <li>▪ Applies in problem solving activities</li> </ul>

Conceptual Strand	Skills
Data Usage	<ul style="list-style-type: none"> <li>▪ Collects and uses data to make a graph</li> <li>▪ Creates and organizes graph</li> <li>▪ Reads and writes reasonable conclusions based on data</li> </ul>
Geometry	<ul style="list-style-type: none"> <li>▪ Builds, sorts, names and draws 2 and 3 dimensional shapes</li> <li>▪ Identifies symmetry</li> <li>▪ Explains how figures are related to objects in the environment</li> </ul>
Fractions	<ul style="list-style-type: none"> <li>▪ Understands basic concept of fractions (halves, thirds &amp; fourths) through pictorial representation as well as numerals</li> <li>▪ Orders fractions (halves, thirds &amp; fourths)</li> </ul>
Time	<ul style="list-style-type: none"> <li>▪ Identifies parts of a clock: hour and minute hand</li> <li>▪ Shows, tells and writes time to the five minute interval</li> <li>▪ Sequences events using a clock and/or calendar</li> <li>▪ Estimates and compares varying lengths of time</li> </ul>
Money	<ul style="list-style-type: none"> <li>▪ Counts coins to represent a monetary amount in more than one way</li> <li>▪ Counts coins to represent a monetary amount using mental math (3 quarters=.75 cents)</li> <li>▪ Selects a group of coins to represent a given amount</li> </ul>
Measurement	<ul style="list-style-type: none"> <li>▪ Uses standard measurement to determine length, weight and volume</li> <li>▪ Reads and uses measuring instruments (ruler, scale, thermometer, and balance)</li> <li>▪ Measures to the nearest inch and centimeter</li> <li>▪ With teacher support, measures and calculates perimeter</li> <li>▪ With teacher support, measures to the nearest ½ inch</li> </ul>
Probability	<ul style="list-style-type: none"> <li>▪ Uses reasoning abilities to: <ul style="list-style-type: none"> <li>✓ Identify questions</li> <li>✓ Choose &amp; justify strategies</li> <li>✓ Check results</li> </ul> </li> </ul>
Problem Solving	<ul style="list-style-type: none"> <li>▪ Explains and demonstrates how a problem was solved (orally and written)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>▪ Work is completed with minimal errors</li> </ul>