

Grade 3
Math Academic Standards – End of Year
School District of Fort Atkinson

| Conceptual Strand | Skills |
|--------------------------|---|
| Counting | <ul style="list-style-type: none"> ▪ Reads and writes whole numbers to 10,000 |
| Estimation | <ul style="list-style-type: none"> ▪ Determines number of objects in a set by estimation including rounding numbers to the nearest 10 and 100 ▪ Approximates measurements (weight, length) by using estimation techniques ▪ Selects and uses estimation in problem solving situations |
| Addition | <ul style="list-style-type: none"> ▪ Fluent with all the basic facts of addition ▪ Uses mental math ▪ Selects and applies algorithms for addition ▪ Recognizes and uses the concept of commutative and associative properties for addition ▪ Adds decimals and money ▪ Solves problems in vertical and horizontal formats |
| Subtraction | <ul style="list-style-type: none"> ▪ Fluent with all the basic facts of subtraction ▪ Uses mental math ▪ Selects and applies algorithm for subtraction ▪ Subtracts decimals and money ▪ Solves problems in vertical and horizontal formats ▪ Subtracts with regrouping across zeros |
| Multiplication | <ul style="list-style-type: none"> ▪ Fluent with basic facts of multiplication (factors 0 through 10) ▪ Uses mental math ▪ Applies to problem solving situations ▪ Recognizes and uses the concept of commutative and associative properties for multiplication |
| Place Value | <ul style="list-style-type: none"> ▪ Represents, compares and explains whole numbers through 10,000 using place-value concepts: <ul style="list-style-type: none"> ✓verbal descriptions ✓expanded notation ✓symbolic renaming ▪ Represents decimals through tenths using place-value concepts ▪ Recognizes and uses the concept of greater than, less than and equal to as well as their symbols (>,<=) ▪ Compares and orders numbers to 10,000 |

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| Data Usage | <ul style="list-style-type: none"> ▪ After instruction student requires limited support to work with data in the context of real-life situations by: <ul style="list-style-type: none"> ✓ formulating questions that lead to data collection and analysis ✓ determining what data to collect, and how to collect it ✓ collecting and displaying data ✓ drawing reasonable conclusions based on data ▪ Reads, extracts and uses information presented in graphs, tables and charts |
| Geometry | <ul style="list-style-type: none"> ▪ Identifies, sorts and draws 2 and 3 dimensional shapes: circle, square, triangle, oval, sphere, cone, cube, cylinder ▪ Explains how figures are related to objects in the environment ▪ Recognizes symmetry and congruence ▪ Identifies location using coordinates ▪ Begins to understand single motion geometry (i.e. slides, flips & turns) |
| Fractions | <ul style="list-style-type: none"> ▪ Reads, writes, draws and orders fractions (halves, thirds, fourths & tenths) ▪ Identifies fractional parts of sets |
| Time | <ul style="list-style-type: none"> ▪ Reads and interprets a digital/analog clock and calendar ▪ Knows and uses correct vocabulary dealing with time (appropriate units of measurement) ▪ Tells time to the one minute interval ▪ Accurately determines elapsed time using a calendar |
| Money | <p>Using bills and coins, the student:</p> <ul style="list-style-type: none"> ▪ Determines the value of a group of coins ▪ Compares groups of coins to dollars and cents ▪ Selects a group of coins to represent a given amount ▪ Begins to understand concept of orally “counting back” change up to \$10.00 (quarter smallest coin) |
| Measurement | <ul style="list-style-type: none"> ▪ Recognizes and describes the attributes of length, weight (mass) and chooses the correct unit to measure them ▪ Reads and uses measuring instruments (scale, ruler, thermometer F/C) ▪ Finds perimeter ▪ Uses metric & US customary units ▪ Measures to nearest half inch and quarter inch |
| Probability | <ul style="list-style-type: none"> ▪ Recognizes outcomes ▪ Identifies possible outcomes of events |
| Problem Solving | <ul style="list-style-type: none"> ▪ Uses reasoning abilities to: <ul style="list-style-type: none"> ✓ identify relationships ✓ identify questions ✓ choose & justify strategies ✓ check results ▪ Explains and demonstrates how a problem was solved (orally, visually or in written form) |

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| Accuracy | <ul style="list-style-type: none"><li data-bbox="565 205 1058 235">▪ Work is completed with minimal errors<li data-bbox="565 256 1253 285">▪ Completes almost all assignments on time and with care |