

Semester TWO Rubric – GRADE 3

**Math**

Report Card Line	4 ADVANCED	3 PROFICIENT	2 BASIC	1 MINIMAL
<p>Reads and writes whole numbers to 10,000 (WI B 4.1 and 4.3)</p>	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Reads and writes, whole numbers to millions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reads and writes whole numbers to 10,000</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reads and writes whole numbers to 10,000 using visual aids</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reads and writes whole numbers to 1,000 using visual aids</li> </ul>
<p>Applies reasonable estimations (WI B 4.2 and D 4.5)</p>	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Determines number of objects in a set by estimation including rounding numbers to the nearest 10, 100, and 1000</li> <li>▪ Approximates measurements (weight, length and volume) by using estimation techniques</li> <li>▪ Selects and uses estimation in problem solving situations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Determines number of objects in a set by estimation including rounding numbers to the nearest 10 and 100</li> <li>▪ Approximates measurements (weight, length) by using estimation techniques</li> <li>▪ Selects and uses estimation in problem solving situations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates some proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>

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<p>Adds 2-3 digit numbers with regrouping (WI B 4.5 and F 4.6)</p>	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Fluently uses facts when solving complex problems involving four and five digit numbers</li> <li>▪ Applies mental math to a variety of situations</li> <li>▪ Generates algorithm for addition</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with all the basic facts of addition</li> <li>▪ Uses mental math</li> <li>▪ Selects and applies algorithms for addition</li> <li>▪ Recognizes and uses the concept of commutative and associative properties for addition</li> <li>▪ Adds decimals and money</li> <li>▪ Solves problems in vertical and horizontal format</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with all basic facts of addition</li> <li>▪ Demonstrates some proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with most basic facts of addition</li> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>
<p>Subtracts 2-3 digit numbers with regrouping (WI B 4.5 and F 4.6)</p>	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Fluently uses facts when solving complex problems involving four and five digit numbers</li> <li>▪ Applies mental math to a variety of situations</li> <li>▪ Generates algorithm for subtraction</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with all the basic facts of subtraction</li> <li>▪ Uses mental math</li> <li>▪ Selects and applies algorithm for subtraction</li> <li>▪ Subtracts decimals and money</li> <li>▪ Solves problems in vertical and horizontal format</li> <li>▪ Subtracts with regrouping across zeros</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with all basic facts of subtraction</li> <li>▪ Demonstrates some proficient skills and/or requires teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with most basic facts of subtraction</li> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>

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Knows basic multiplication facts (WI B 4.5)	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Fluent with basic facts of multiplication (factors 0-12)</li> <li>▪ Multiplies two-digit numbers by one digit</li> <li>▪ Understands relationship between multiplication and division</li> <li>▪ Knows most division facts</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with basic facts of multiplication (factors 0 through 10)</li> <li>▪ Uses mental math</li> <li>▪ Applies to problem solving situations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with most basic facts of multiplication (factors 0 through 10)</li> <li>▪ Demonstrates some proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluent with some basic facts of multiplication (factors 0 through 10)</li> <li>▪ Demonstrates few proficient skills and requires intensive teacher help</li> </ul>
Understands place value (WI B 4.1)	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Represents and explains whole numbers through millions and beyond using place-value concepts:                             <ul style="list-style-type: none"> <li>▪ expanded notation</li> <li>▪ verbal descriptions</li> <li>▪ symbolic renaming (multiple renamings)</li> </ul> </li> <li>▪ Represents decimals through hundredths (not money) using place-value concepts</li> <li>▪ Compares and orders numbers to millions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Represents and explains whole numbers through 10,000 using place-value concepts:                             <ul style="list-style-type: none"> <li>▪ expanded notation</li> <li>▪ verbal descriptions</li> <li>▪ symbolic renaming</li> </ul> </li> <li>▪ Represents decimals through tenths using place-value concepts</li> <li>▪ Recognizes and uses the concept of greater than, less than and equal to as well as their symbols (&gt;,&lt;=)</li> <li>▪ Compares and orders numbers to 10,000</li> </ul>	<ul style="list-style-type: none"> <li>▪ Represents and explains whole numbers through 1,000 using place-value concepts and expanded notation</li> </ul> <p><b>Needs teacher support to:</b></p> <ul style="list-style-type: none"> <li>▪ Represents decimals through tenths using place-value concepts</li> <li>▪ Recognizes and uses the concept of greater than, less than and equal to as well as their symbols (&gt;,&lt;=)</li> <li>▪ Compares and orders numbers past 1,000</li> </ul>	<ul style="list-style-type: none"> <li>▪ Represents and explains whole numbers through 100 using place-value concepts and expanded notation</li> </ul> <p><b>Requires intensive teachers support to:</b></p> <ul style="list-style-type: none"> <li>▪ Represents decimals through tenths using place-value concepts</li> <li>▪ Recognizes and uses the concept of greater than, less than and equal to as well as their symbols (&gt;,&lt;=)</li> <li>▪ Compare and order numbers past 100</li> </ul>

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<p>Collects, organizes, records and interprets data using graphs, tables and charts  (WI A 4.2 and E 4.1)</p>	<p><b>Independently</b> demonstrates proficient skills when working with data in the context of real-life situations <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Organizes and displays data in a variety of formats</li> </ul>	<ul style="list-style-type: none"> <li>▪ After instruction student requires limited support to work with data in the context of real-life situations by:                             <ul style="list-style-type: none"> <li>✓ formulating questions that lead to data collection and analysis</li> <li>✓ determining what data to collect, and how to collect it</li> <li>✓ collecting and displaying data</li> <li>✓ drawing reasonable conclusions based on data</li> </ul> </li> <li>▪ Reads, extracts and uses information presented in graphs, tables and charts</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>
<p>Understands the basic characteristics and language of geometry  (WIC 4.1, 4.2 &amp; 4.3)</p>	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Identifies, sorts, and draws pyramids and prisms</li> <li>▪ Recognizes similarity</li> <li>▪ Identify, describe, and compare properties of 2 and 3 dimensional figures by comparing sides, faces, edges, etc.</li> <li>▪ Experiments with drawing shapes on a coordinate grid from a given set of coordinates</li> </ul>	<ul style="list-style-type: none"> <li>▪ Identifies, sorts and draws 2 and 3 dimensional shapes: circle, square, triangle, oval, sphere, cone, cube, cylinder</li> <li>▪ Explains how figures are related to objects in the environment</li> <li>▪ Recognizes symmetry and congruence</li> <li>▪ Identifies location using coordinates (positive)</li> <li>▪ Shows understanding of single-motion geom. (i.e. slides, flips, and turns)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>

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Understands basic concepts of fractions (WIB 4.3)	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Identifies, reads writes and draws mixed numbers</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reads, writes, draws and orders fractions (halves, thirds, fourths &amp; tenths)</li> <li>▪ Identifies fractional parts of sets</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>
Understands concepts of time (WID 4.1 & 4.3)	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Accurately determines elapsed time (multiples of 15 minutes) using a calendar and/or clock</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reads and interprets a digital/analog clock and calendar</li> <li>▪ Knows and uses correct vocabulary dealing with time (appropriate units of measurement)</li> <li>▪ Tells time to the one minute interval</li> <li>▪ Accurately determines elapsed time using a calendar</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>
Understands concepts of money (WID 4.1, 4.3, 4.4 and B 4.2)	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ “Counts back” change up to \$10.00 including all coins with minimal teacher support</li> <li>▪ Begins to understand concept of giving back least amount of coins</li> </ul>	<p>Using bills and coins, the student:</p> <ul style="list-style-type: none"> <li>▪ Determines the value of a group of coins</li> <li>▪ Compares groups of coins to dollars and cents</li> <li>▪ Selects a group of coins to represent a given amount</li> <li>▪ Makes change to \$10.00</li> <li>▪ Begins to understand concept of orally “counting back” change</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>

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<p>Understands concepts of measurement (WID 4.1, 4.2, 4.3, 4.4 and 4.5)</p>	<p><b>Independently</b> demonstrates proficient skills <b>and</b>:</p> <ul style="list-style-type: none"> <li>▪ Recognizes and describes the attribute of volume and chooses the correct unit to measure it</li> <li>▪ Measures to nearest eighth inch</li> <li>▪ Demonstrates an understanding of area</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recognizes and describes the attributes of length, weight (mass) and chooses the correct unit to measure them</li> <li>▪ Reads and uses measuring instruments (scale, ruler, thermometer F/C)</li> <li>▪ Finds perimeter</li> <li>▪ Uses metric &amp; US customary units</li> <li>▪ Measures to nearest half inch and quarter inch</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>
<p>Understands concepts of probability (WIE 4.4 &amp; 4.5)</p>	<p><b>Independently</b> demonstrates proficient skills <b>and</b>:</p> <ul style="list-style-type: none"> <li>▪ Identifies possible outcomes of events using data from a variety of sources</li> <li>▪ Designs experiments which meets a given set of criteria (ex - design fair / unfair spinner, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recognizes outcomes</li> <li>▪ Identifies possible outcomes of events</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>

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Uses and communicates problem solving strategies (WI A 4.1 & 4.5)	<p><b>Independently</b> demonstrates proficient skills <b>and:</b></p> <ul style="list-style-type: none"> <li>▪ Precisely explains and demonstrates how a problem was solved (orally, visually or in written form)</li> <li>▪ Solves multiple step problems</li> </ul>	<ul style="list-style-type: none"> <li>▪ Uses reasoning abilities to:                             <ul style="list-style-type: none"> <li>✓ identify relationships</li> <li>✓ identify questions</li> <li>✓ choose &amp; justify strategies</li> <li>✓ check results</li> </ul> </li> <li>▪ Explains and demonstrates how a problem was solved (orally, visually or in written form)</li> <li>▪ Solves multi-step problems</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates most of the proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and/or requires intensive teacher help</li> </ul>
Works with accuracy	<ul style="list-style-type: none"> <li>▪ Work is consistently accurate</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work is completed with minimal errors</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work is completed with frequent errors</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work is incomplete and/or has significant errors</li> </ul>
Completes assignments on time	<ul style="list-style-type: none"> <li>▪ Completes all assignments on time and with care</li> <li>▪ Work shows evidence of excellent time management</li> </ul>	<ul style="list-style-type: none"> <li>▪ Completes almost all assignments on time and with care</li> </ul>	<ul style="list-style-type: none"> <li>▪ Completes some assignments on time and with care</li> </ul>	<ul style="list-style-type: none"> <li>▪ Completes few assignments on time</li> <li>▪ Work is rarely completed with care</li> </ul>