

Semester ONE Rubric – GRADE 4

**Math**

Report Card Line	4 ADVANCED	3 PROFICIENT	2 BASIC	1 MINIMAL
<p>Recognizes, names and writes whole numbers through millions (WI B 4.1 and 4.3)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Reads and writes, numbers <b>beyond</b> millions</li> <li>▪ Applies knowledge to problem solving situations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reads and writes whole numbers to millions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Requires some teacher help to demonstrate proficient skill</li> </ul>	<ul style="list-style-type: none"> <li>▪ Requires intensive teacher help to demonstrate proficient skill</li> </ul>
<p>Applies reasonable estimations (WI B 4.2 and D 4.5)</p>	<p>In addition to meeting the requirements for proficient, student:</p> <ul style="list-style-type: none"> <li>▪ Automatically uses estimation to check for reasonable answers</li> <li>▪ Determines number of objects in a set by estimation including rounding numbers to the nearest 1000</li> </ul>	<ul style="list-style-type: none"> <li>▪ Determines number of objects in a set by estimation or use of benchmarks to nearest 100 (3+digit number)</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>▪ Demonstrates some proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and requires intensive teacher help</li> </ul>

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<p>Adds and subtracts numbers with multiple digits (WI B 4.5, 4.7 &amp; F 4.6)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Demonstrates the ability to use addition and subtraction skills in complex, multi-step problems</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recalls the basic facts of addition and subtraction</li> <li>▪ Uses mental math</li> <li>▪ Selects and applies algorithms for addition and subtraction</li> <li>▪ Recognizes and uses the commutative and associative properties for addition</li> <li>▪ Adds and subtracts money</li> <li>▪ Solves problems in vertical and horizontal format</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 requires intensive teacher help</li> </ul>
<p>Knows basic multiplication facts (WI B 4.5)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Recalls basic facts of multiplication (factors of 11 &amp; 12) quickly and automatically</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quickly and automatically recalls the basic facts of multiplication (factors 0 through 10) orally and in written work</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recalls some basic facts orally and in written work</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recalls few basic facts orally and in written work</li> </ul>
<p>Multiplies numbers with multiple digits (WI B 4.5 and F 4.6)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Uses a calculator correctly</li> <li>▪ Multiplies 2 digit by 2 digit problems – or beyond</li> </ul>	<ul style="list-style-type: none"> <li>▪ Selects and applies algorithms for multiplication (2 digit x 1 digit and 3 digit x 1 digit)</li> <li>▪ Recognizes &amp; uses generalized properties of multiplication</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 requires intensive teacher help</li> </ul>

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<p>Knows basic division facts (WI B 4.5)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Consistently recalls facts instantly and accurately</li> <li>▪ Is intrinsically motivated to retain fluency over time</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recalls basic facts of division (divisors to 9) in written work</li> <li>▪ Uses mental math</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recalls some basic facts orally and in written work</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recalls few basic facts orally and in written work</li> </ul>
<p>Divides numbers with multiple digits (WI B 4.5 and F 4.6)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Divides problems with a 2 digit divisor – or beyond</li> </ul>	<ul style="list-style-type: none"> <li>▪ Applies basic facts of division to multiple digit problems (2x1 digit)</li> <li>▪ Applies algorithms for division</li> <li>▪ Uses inverse relationship of multiplication and division to check work</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 requires intensive teacher help</li> </ul>

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<p>Understands basic concepts of algebra (WIF 4.1, 4.2, 4.4, 4.5)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Accurately finds the value of the variable in complex equations and inequalities (&lt;,&gt;)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Uses letters, boxes or other symbols to stand for any number, measured quantity, or object in simple situations</li> <li>▪ Recognizes how a change in one quantity can produce a change in another (balances equations)</li> <li>▪ Uses variables in simple equations and inequalities (&gt;,&lt;) to:                             <ul style="list-style-type: none"> <li>✓ solve problems</li> <li>✓ record solution strategies</li> <li>✓ represent problems</li> </ul> </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 requires intensive teacher help</li> </ul>
<p>Understands place value (WIB 4.1)</p>	<p>With teacher support demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Represents and explains decimals through hundredths (beyond monetary figures) and fractions through sixteenths</li> </ul>	<ul style="list-style-type: none"> <li>▪ Represents and explains whole numbers through millions, and decimals (monetary units) using place-value concepts                             <ul style="list-style-type: none"> <li>✓ physical materials</li> <li>✓ number lines</li> <li>✓ verbal descriptions</li> <li>✓ expanded notation</li> <li>✓ symbolic renaming (e.g. <math>43=40+3=30+13</math>)</li> </ul> </li> <li>▪ Recognizes and uses the concept of greater than, less than and equal to as well as their symbols (&gt;,&lt;=)</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 requires intensive teacher help</li> </ul>

**Semester ONE Rubric – GRADE 4**

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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>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Describes a set of data using:                             <ul style="list-style-type: none"> <li>✓ most frequent value (mode)</li> <li>✓ middle value of a set (median)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Works 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 when and how to collect it</li> <li>✓ collecting, organizing and displaying data</li> <li>✓ drawing reasonable conclusions based on data</li> </ul> </li> <li>▪ Describes a set of data using:                             <ul style="list-style-type: none"> <li>✓ high &amp; low values (range)</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 some proficient skills and/or requires some teacher help</li> </ul>	<ul style="list-style-type: none"> <li>▪ Demonstrates few proficient skills and requires intensive teacher help</li> </ul>
<p>Understands the basic characteristics and language of geometry (WI C 4.1, 4.2 &amp; 4.3)</p>	<p align="center">Not reported Semester 1</p>	<p align="center">Not reported Semester 1</p>	<p align="center">Not reported Semester 1</p>	<p align="center">Not reported Semester 1</p>
<p>Understands basic concepts of fractions including addition and subtraction (WI B 4.6)</p>	<p align="center">Not reported Semester 1</p>	<p align="center">Not reported Semester 1</p>	<p align="center">Not reported Semester 1</p>	<p align="center">Not reported Semester 1</p>

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Understands mixed numbers (WI B 4.3)	Not reported Semester 1	Not reported Semester 1	Not reported Semester 1	Not reported Semester 1
Understands concepts of time (WID 4.1 & 4.3)	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Accurately determines elapsed time using a clock (to 5 minute intervals)</li> <li>▪ Determines elapsed time in problem solving situations (to 5 minute intervals)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reads and interprets digital/analog clock</li> <li>▪ Knows and uses correct vocabulary dealing with time (appropriate units of measurement)</li> <li>▪ Accurately determines elapsed time using a calendar</li> <li>▪ Tells time to the minute</li> <li>▪ Determines elapsed time to 15 minute intervals</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 requires intensive teacher help</li> </ul>
Understands concepts of money (WID 4.1, 4.3, 4.4 and B 4.2)	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> <li>▪ Orders monetary units (decimals)</li> <li>▪ Makes change beyond \$20 in different ways with minimal amounts of bills and coins</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recognizes and describes monetary value (Student determines the value of a given amount of coins and bills)</li> <li>▪ Demonstrates several coin combinations for a given value</li> <li>▪ Makes change up to \$20 (Begins to understand concept of least amount of coins)</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 requires intensive teacher help</li> </ul>

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Understands concepts of measurement (WID 4.1, 4.2, 4.3, 4.4 and 4.5)	Not reported Semester 1	Not reported Semester 1	Not reported Semester 1	Not reported Semester 1
Understands concepts of probability (WIE 4.4 & 4.5)	Not reported Semester 1	Not reported Semester 1	Not reported Semester 1	Not reported Semester 1
Uses and communicates problem solving strategies (WIA 4.1 & 4.5)	Independently demonstrates proficient skills and: <ul style="list-style-type: none"> <li>▪ Solves multiple step problems</li> <li>▪ Analyzes the mathematical thinking and strategies of others</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 strategies</li> <li>✓ check results</li> </ul> </li> <li>▪ Demonstrates how a problem was solved (orally, visually or in written form) with supporting evidence</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 requires intensive teacher help</li> </ul>
Works with accuracy	<ul style="list-style-type: none"> <li>▪ Work is completed with consistent accuracy and care</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work is completed with minimal errors and with care</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work is completed with frequent errors and care is not always evident</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work is incomplete or completed with significant errors</li> <li>▪ Work is rarely completed with care</li> </ul>
Completes work on time	<ul style="list-style-type: none"> <li>▪ Complete all work on time with evidence of time management</li> </ul>	<ul style="list-style-type: none"> <li>▪ Completes almost all work on time</li> </ul>	<ul style="list-style-type: none"> <li>▪ Completes some work on time</li> </ul>	<ul style="list-style-type: none"> <li>▪ Completes little work on time</li> </ul>