

Semester ONE Rubric – Grade 5

Math

Report Card Line	4 ADVANCED	3 PROFICIENT	2 BASIC	1 MINIMAL
<p>Applies reasonable estimations (WI B 4.2 and D 4.5)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> ▪ Applies advanced estimating strategies in problem solving situations 	<ul style="list-style-type: none"> ▪ Determines number of objects in a set by estimation, including rounding decimals to the nearest hundredth ▪ Approximates measurements (length, weight and volume) by using estimation techniques ▪ Selects and uses estimation in problem solving situations 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help
<p>Adds and subtracts numbers with multiple digits (WI B 4.5, 4.7 & F 4.6)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> ▪ Recalls facts fluently ▪ Applies mental math to a variety of situations ▪ Generates algorithms for addition and subtraction 	<ul style="list-style-type: none"> ▪ Recalls the basic facts of addition and subtraction ▪ Uses mental math ▪ Selects and applies algorithms for addition and subtraction ▪ Recognizes and uses the commutative and associative properties for addition in simple equations ▪ Adds and subtracts decimals and money ▪ Solves problems in vertical and horizontal formats 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help ▪ Recalls some basic facts of addition and subtraction 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help ▪ Recalls few basic facts of addition and subtraction

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<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"> ▪ Applies basic multiplication facts to multiple digit (Higher than 3 digit x 2 digit) problems efficiently ▪ Applies and explains how to use mental math in a variety of situations ▪ Generates algorithms for multiplication ▪ Applies properties of multiplication 	<ul style="list-style-type: none"> ▪ Applies basic multiplication facts to multiple digit (3 digit x 2 digit) problems ▪ Uses mental math ▪ Selects and applies algorithms for multiplication ▪ Uses a calculator correctly ▪ Uses generalized properties of multiplication 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help
<p>Knows basic multiplication and division facts (WI B 4.5)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> ▪ Automatically uses facts when solving complex, multi-step problems (ex – multiplication facts of 15, 20, 25, 30 and beyond) 	<ul style="list-style-type: none"> ▪ Recalls the basic facts of multiplication (factors 0 through 12) orally and in written work with minimal effort ▪ Recalls the basic facts of division (divisors to 12) orally and in written work 	<ul style="list-style-type: none"> ▪ Recalls some of the basic facts of multiplication (factors 0 through 10) orally and in written work ▪ Recalls some of the basic facts of division (divisors to 10) orally and in written work 	<ul style="list-style-type: none"> ▪ Recalls few of the basic facts of multiplication (factors 0 through 10) orally and in written work ▪ Recalls few of the basic facts of division (divisors to 10) orally and in written work

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<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"> ▪ Applies basic division facts to multiple digit (Higher than 3 digit x 2 digit) problems automatically ▪ Applies and explains how to use mental math in a variety of situations ▪ Generates and applies algorithms for division 	<ul style="list-style-type: none"> ▪ Applies basic division facts to multiple digit problems ▪ Uses mental math ▪ Selects and applies algorithms for basic division ▪ Uses a calculator correctly ▪ Uses inverse relationship of multiplication and division to check work 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help

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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"> ▪ Applies basic algebraic skills to real life problem solving situations 	<ul style="list-style-type: none"> ▪ Uses variables to stand for any unknown quantity ▪ Uses the vocabulary & symbols of algebra accurately ▪ Recognizes how a change in one quantity can produce a change in another (balances equations) ▪ Uses simple equations and inequalities ($>$, $<$) in a variety of ways including: <ul style="list-style-type: none"> ✓ representing problem solving situations ✓ solving using different methods ✓ recording and describing solution strategies 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help

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<p>Understands place value (WIB 4.1)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> ▪ Represents and explains whole numbers through billions, decimals through thousandths and fractions using place-value concepts and standard, written and expanded notation 	<ul style="list-style-type: none"> ▪ Represents and explains whole numbers through <u>millions and beyond</u>, decimals through <u>hundredths</u> and fractions through <u>sixteenths</u> using: <ul style="list-style-type: none"> ▪ place-value concepts ▪ standard & written notation ▪ expanded notation ▪ Recognizes and uses the concept of greater than, less than and equal to as well as their symbols (>,<=) 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help

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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"> ▪ Analyzes a set of data using: range, mode, mean and median 	<ul style="list-style-type: none"> ▪ Works 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 when and how to collect it ✓ collecting, organizing and displaying data ✓ drawing reasonable conclusions based on data ▪ Describes a set of data using: range, mean, mode and median ▪ Reads, extracts and uses information presented in graphs, tables and charts 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help
<p>Understands the basic characteristics and language of geometry (WI C 4.1, 4.2 & 4.3)</p>	<p>Not reported in Semester 1</p>	<p>Not reported in Semester 1</p>	<p>Not reported in Semester 1</p>	<p>Not reported in Semester 1</p>

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<p>Understands basic concepts of fractions including addition and subtraction (WI B 4.6)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> ▪ Multiplies complex, multi-step fractions 	<ul style="list-style-type: none"> ▪ Reads, writes and orders fractions through sixteenths ▪ Identifies equivalent fractions through sixteenths ▪ Adds and subtracts fractions with like denominators ▪ Adds and subtracts simple fractions with unlike denominators 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<p>Requires intensive teacher help to:</p> <ul style="list-style-type: none"> ▪ Read and write simple fractions ▪ Add and subtract simple fractions with like denominators
<p>Simplifies fractions (WI B 4.4)</p>	<ul style="list-style-type: none"> ▪ Always simplifies fractions in written work 	<ul style="list-style-type: none"> ▪ Almost always simplifies fractions in written work 	<ul style="list-style-type: none"> ▪ Sometimes simplifies fractions in written work 	<ul style="list-style-type: none"> ▪ Requires teacher assistance to simplify fractions in written work
<p>Understands concepts of time (WID 4.1 & 4.3)</p>	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> ▪ Applies skills to a problem solving situation ▪ Understands concept of and calculates elapsed time using a clock to the 1 minute interval 	<ul style="list-style-type: none"> ▪ Tells time to the minute ▪ Understands concept of and calculates elapsed time using a clock to the 5 minute interval ▪ Understands concept of elapsed time using a calendar 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help

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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"> ▪ Calculates tax and tip 	<p>Student will accurately:</p> <ul style="list-style-type: none"> ▪ Combine and arrange all coin combinations ▪ Order monetary units (decimals) ▪ Make change using bills and coins in different ways beyond \$20.00 with minimal amount of bills and coins 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help
Understands concepts of measurement (WID 4.1, 4.2, 4.3, 4.4 and 4.5)	Not reported in Semester 1	Not reported in Semester 1	Not reported in Semester 1	Not reported in Semester 1
Understands concepts of probability (WIE 4.4 & 4.5)	Not reported in Semester 1	Not reported in Semester 1	Not reported in Semester 1	Not reported in Semester 1

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Uses and communicates problem solving strategies (WI A 4.1 & 4.5)	<p>Independently demonstrates proficient skills and:</p> <ul style="list-style-type: none"> ▪ Applies measurement skills to create a project 	<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 ▪ Solves multiple step problems ▪ Explains solutions clearly and logically (with supporting evidence) orally and in writing 	<ul style="list-style-type: none"> ▪ Demonstrates some proficient skills and/or requires some teacher help 	<ul style="list-style-type: none"> ▪ Demonstrates few proficient skills and requires intensive teacher help
Works with accuracy	<ul style="list-style-type: none"> ▪ Work is consistently accurate and with care 	<ul style="list-style-type: none"> ▪ Work is completed with minimal errors and with care 	<ul style="list-style-type: none"> ▪ Work is completed with frequent errors and care is not always evident 	<ul style="list-style-type: none"> ▪ Work is incomplete ▪ Work has significant errors ▪ Work is rarely completed with care
Completes work on time	<ul style="list-style-type: none"> ▪ Completes all assignments on time with evidence of time management 	<ul style="list-style-type: none"> ▪ Almost all work handed in on time 	<ul style="list-style-type: none"> ▪ Completes some assignments on time 	<ul style="list-style-type: none"> ▪ Completes few assignments on time