

**Octorara Area School District
 Standards Based Report Card Rubrics
 2018-2019
 Math**

Standards-based grading aligns grading with the PA Core Standards. The report card accurately communicates achievement of learning targets to students, parents, and educators. Our report card provides specific information about the level of proficiency on the learning targets that are taught each trimester.

By the end of the year, students are expected to meet each grade-level standard (M). Students not meeting standards will receive instructional supports to achieve mastery for specific content and skills.

The purpose of these rubrics is to assist students, parents, and teachers in understanding what the specific learning expectations are for students to be considered at grade-level mastery in each skill area. These learning expectations may grow or increase as the school year progresses and more content/skills are introduced.

SBRC Descriptor	M	SP	LP	NA
Means:	Consistently meets grade level expectations/standards	Demonstrates steady progress toward meeting grade level expectations/standards	Demonstrates limited progress toward meeting grade level expectations/standards	Not assessed at this time
Numbers and Operations- Base Ten				
Applies place value concepts to show an understanding of operations and rounding as they pertain to whole numbers and decimals	<p>Consistently identifies and writes decimals to the thousandths.</p> <p>Consistently compares, orders and rounds whole numbers to 9 digits</p> <p>Consistently compares and orders decimals to the thousands</p>	<p>Inconsistently identifies and writes decimals to the tenths</p> <p>Consistently compare, orders, and rounds whole numbers to 6 digits</p> <p>Inconsistently compares, orders, and rounds decimals to the tenths or with different number of significant digits (ex. 2.3 vs. 2.30 or 4.7 vs. 4.07)</p>	<p>Limited ability to define and identify decimals</p> <p>Limited ability to compare, order and round whole numbers</p> <p>Limited ability to define, compare, and order decimals</p>	Not assessed at this time

Demonstrates understanding of operations with whole numbers and performs operations including decimals (to hundredth place)	<p>Consistently adds and subtracts whole numbers, decimals to the hundredths</p> <p>Compares whole numbers, decimals to the hundredths</p> <p>Multiplies three digit by three digit numbers accurately, including decimals to hundredths</p> <p>Divides by two digit whole numbers with and without remainders accurately. Dividends may include decimals to hundredths</p>	<p>Consistently adds and subtracts whole numbers</p> <p>Consistently compares whole numbers accurately</p> <p>Multiplies one digit and two digit whole numbers accurately</p> <p>Divides one digit whole numbers accurately with and without remainders</p>	<p>Limited ability to add and subtract whole numbers</p> <p>Limited ability to compare whole numbers accurately</p> <p>Multiplies one digit whole numbers accurately</p> <p>Divides one digit whole numbers accurately without remainders</p>	Not assessed at this time
Numbers and Operations-Fractions				
Solves addition problems involving fractions	Consistently adds fractions with like/unlike denominators	Consistently adds fractions with like denominators	Limited ability to add fractions with like denominators	
Solves subtraction problems involving fractions	Consistently subtracts fractions with like/unlike denominators	Consistently subtracts fractions with like denominators	Limited ability to subtract fractions with like denominators	
Solves multiplication problems involving fractions and whole numbers	Consistently multiplies fractions with like/unlike denominators	Consistently multiplies fractions with like denominators	Limited ability to multiply fractions with like denominators	
Solves division problems involving fractions and whole numbers	Consistently divides fractions with like/unlike denominators	Consistently divides fractions with like denominators	Limited ability to divide fractions with like denominators	
Operations and Algebraic Thinking				

Shows basic fact mastery	Independently and consistently calculates basic facts efficiently, accurately and flexibly	Inconsistent calculates basic facts efficiently, accurately and flexibly. May be independent with one or more of the four operations, but not all.	Dependent upon concrete strategies or tools such as multiplication charts and/or calculator to calculate facts	Not assessed at this time
Interprets and evaluates numerical expressions using order of operations	Independently evaluates expressions using order of operations	Consistently evaluates expressions with four operations Inconsistently evaluates expressions when parentheses are included	Limited ability to evaluate expressions using order of operations	Not assessed at this time
Analyzes patterns and relationships	Identifies, writes and uses algebraic number sentences to represent patterns	Identifies, writes and uses a more complex number sentence to represent a numerical pattern, such as one that uses parentheses or exponents	Identifies, writes and uses a number sentence to represent a numerical pattern using the four operations	Not assessed at this time
Geometry				
Classifies two-dimensional figures into categories based on an understanding of their properties	Consistently identifies, sorts, classifies, and compares the properties of 2-D shapes	Consistently identifies 2-D shapes, but inconsistently sorts, classifies, and compares the properties of them.	Limited ability to identify the various 2-D figures.	
Graphs points in the first quadrant on the coordinate plane and interprets these points when solving real-world mathematical problems	Consistently draws axes. Consistently identifies, draws, and labels points in quadrant 1. Plots points using whole numbers, fractions and decimals.	Consistently draws axes. Consistently identifies, draws, and labels some, points in quadrant 1 but not all Plots points using whole numbers only	Limited ability to draw axes or identify quadrant 1	
Measurement and Data				
Solves problems using conversions within a given measurement system	Consistently measures to the nearest $\frac{1}{4}$ inch and centimeter Can convert, add, and subtract consistently in customary units	Consistently measures to the nearest $\frac{1}{2}$ inch and centimeter Can convert, add, subtract consistently in customary and	Consistently measures to the nearest inch and centimeter Limited ability to convert, add and subtract linear measurements	

	and metric units, using decimals and fractions for linear measurements	metric units (whole numbers only) in linear measurements		
Solves problems involving computation of fractions using information provided in a line plot	Solves problems involving computation of fractions using information provided in a line plot ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{6}$)	Creates a line plot using fractions, inability to solve problems related to it	Inability to create a line plot involving fractions	
Applies concepts of volume to solve problems and relate volume to multiplication and addition	Consistently solves problems related to volume	Inconsistently solves problems related to volume	Limited understanding of volume	