Octorara Area School District
Standards Based Report Card Rubrics
2018-2019
4th GRADE 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
Math Fact Fluency				
Addition Facts	Independently and consistently calculates basic addition facts efficiently, accurately and flexibly	Inconsistently calculates basic addition facts efficiently, accurately and flexibly. May be independent with some facts, but not all.	Dependent upon concrete strategies or tools such as number lines, drawings, or objects to calculate addition facts	Not assessed at this time
Subtraction Facts	Independently and	Inconsistently calculates	Dependent upon	Not assessed at this time

	consistently calculates basic subtraction facts efficiently, accurately and flexibly	basic subtraction facts efficiently, accurately and flexibly. May be independent with some facts, but not all.	concrete strategies or tools such as number lines, drawings, or objects to calculate subtraction facts	
Multiplication Facts	Independently and consistently calculates basic multiplication facts efficiently, accurately and flexibly	Inconsistently calculates basic multiplication facts efficiently, accurately and flexibly. May be independent with some facts, but not all.	Dependent upon concrete strategies or tools such as number lines, drawings, or objects to calculate multiplication facts	Not assessed at this time.
Division Facts	Independently and consistently calculates basic division facts efficiently, accurately and flexibly	Inconsistently calculates basic division facts efficiently, accurately and flexibly. May be independent with some facts, but not all.	Dependent upon concrete strategies or tools such as number lines, drawings, or objects to calculate division facts	Not assessed at this time.
Numbers and Operations - Base Ten				
Applies place value concepts to show an understanding of multi-digit whole numbers	Independently and consistently compares, orders and rounds whole numbers to 6 digits and mixed numbers, fractions with like denominators and decimals to the hundredths Consistently compare	Consistently estimates, adds and subtracts one digit, two and three digit whole numbers only. Multiplies two digit numbers by one digit numbers. Divides by one digit divisors with and without remainders.	Limited ability to estimate, add, and subtract whole numbers. Multiplies one digit numbers. Divides by one digit divisors without remainders.	Not assessed at this time.

Uses place value understanding and properties of operations to perform multi-digit arithmetic	Independently and consistently estimates, adds, and subtracts one, two, and three digit whole numbers, decimals to hundredths and fractions with like denominators. Multiplies two digit numbers. Divides three digit numbers by one digit divisors with and without remainders.	Consistently estimates, adds, and subtracts one, two and three digit whole numbers only. Multiplies two digit numbers by one digit numbers. Divides by one digit divisors with and without remainders.	Limited ability to estimate, add and subtract whole numbers. Multiplies one digit numbers. Divides by one digit divisors without remainders.	Not assessed at this time
Numbers and Operations-Fractions				
Demonstrates understanding of fraction equivalence and ordering	Orders and compares fractions with like/unlike numerators and denominators.	Orders and compares fractions with like denominators.	Inability to order and compare fractions.	Not assessed at this time.
Builds fractions from unit fractions by applying and extending previous understandings of operations on whole numbers	Independently and consistently estimates, adds, and subtracts mixed numbers/fractions and multiplies fractions.	Consistently estimates, adds, and subtracts fractions.	Limited ability to estimate, add, and subtract fractions.	Not assessed at this time
Connects decimal notation to fractions and compares fractions (base 10 as denominator)	Independently and consistently expresses a fraction with denominators of 10 or 100 as a decimal.	Consistently expresses a fraction with denominator 10 or 100 as a decimal.	Inability to express a fraction with denominator 10 or 100 as a decimal.	Not assessed at this time

	Consistently compares two decimals.	Inconsistently compares two decimals.		
Operations and Algebraic Thinking				
Represents and solves problems using the four operations	Independently and consistently solves problems with all four operations.	Consistently solves problems with less than 4 operations.	Inability to solve problems.	Not assessed at this time.
Develops and/or applies number theory concepts to find factors and multiples	Independently and consistently identifies the factors of numbers and multiples to 100	Identifies factors of numbers to 50 and multiples to 100	Limited ability to identify factors and multiples.	Not assessed at this time.
Generates and analyzes patterns	Extends and describes patterns, including numeric patterns.	Inconsistently extends and describes patterns	Limited ability to extend and/or describe patterns	Not assessed at this time
Geometry				
Draws lines and angles and identifies these in two-dimensional figures	NA	NA	NA	Not assessed at this time.
Classifies two-dimensional figures by properties of their lines and angles	NA	NA	NA	Not assessed at this time.
Recognizes symmetric shapes and draws lines of symmetry	NA	NA	NA	Not assessed at this time.

Measurement and Data			
Solves problems involving measurement and conversions from larger to smaller units	NA	NA	NA	Not assessed at this time.
Translate information from one type of data display to another	NA	NA	NA	Not assessed at this time.
Represents and interprets data involving fractions using information provided in a line plot	NA	NA	NA	Not assessed at this time.
Measures angles and uses properties of adjacent angles to solve problems	NA	NA	NA	NA