

Fourth Grade Math Learning Targets

2015-2016

REGIONAL SCHOOL UNIT #22

RSU #22 is committed to the optimal learning of all students. As RSU #22 continues to move towards meeting 2018 graduation expectations, we have elected to look at proficiency learning targets K-12. Rather than only the high school being responsible to report student proficiency, we have created some initial targets at each grade level. We know that some children may be able to meet standards beyond the targets listed at the grade level. We also know that some students will need more time to meet the expectations.

Standards Scored on the Report Card:

Operations and Algebraic Thinking

- Understands how to solve word problems using addition and subtraction of whole numbers.
- Is skilled at solving multiplication and division word problems.
- Understands how to generate a sequence given a rule.

Number and Operations in Base Ten

- Is skilled at multiplying a multi-digit number by a one digit number and multiplying two by two-digit numbers.
- Is skilled at dividing a 4 digit dividend by a one digit divisor with remainders.
- Understands the rules for rounding whole numbers using place value.

Number and Operations - Fractions

- Understands decimal notation for fractions with a denominator of 10, 100, 1000. Understands the relationship between tenths and hundredths place in fractions and decimals.

Measurement and Data

- Understands data can be represented and interpreted using a line plot (dot plot) using whole units and picture graphs and bar graphs.
- Understands the rules for converting measurement units within the same system.
- Is skilled at using perimeter and area formula for rectangles in real world and mathematical problems.

Geometry

- Understands the symmetry in shapes or figures.

Additional Concepts Introduced:

Operations and Algebraic Thinking

- Understands that a whole number is a multiple of each of its factors.
- Understands the relationship between multiplication and division.

Number and Operations in Base Ten

- Understands the place value system: that a digit in one place represents 10 times as much as the place to its right represents.
- Understands that a whole number is a multiple of each of its factors. Understands the relationship between multiplication and division.
- Read and write multi-digit whole numbers to the 100,000. Compare two multi-digit numbers.
- Add and subtract multi-digit (100,000) numbers.

Number and Operations - Fractions

- Understands the rules for ordering and comparing fractions with like and unlike denominators.
- Is skilled at multiplying fractions with whole numbers.
- Compare two decimals to hundredths using the symbols $>$, $<$, $=$
- Add and subtract fractions with like denominators and simplify the answer.
- Understands two fractions are equivalent (equal) if they are the same size or the same point on a number line.

Measurement and Data

- Is skilled at measuring angles using a protractor. Is skilled at drawing angles using a protractor.

Geometry

- Understands the similarities and differences among the angles and lines of shapes. Understands how to compose a geometric shape with given conditions.