

Fifth Grade 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 the basic order of operations for addition, subtraction, multiplication, & division.
- Understands that whole number is a multiple of each of its factors.
- Understands the relationship between multiplication and division.
- Is skilled at dividing up to a four-digit dividend by a two- digit divisor.
- Understands how to solve word problems using addition and subtraction of whole numbers.
- Is skilled at solving multiplication and division word problems.

Number and Operations in Base Ten

- Understand the place value system: that a digit in ones place represents $\frac{1}{10}$ of what it represents in the place to its left.
- Understand the place value system: that a digit in ones place represents 10 times of what it represents in the place to its right.
- Understands the rules for rounding whole numbers using place value.
- Understands the concept of rounding decimals to any place using place value.
- Understands the order of integers on a number line. (Positive & Negative)

Fractions

- Understand the rules for adding and subtracting fractions with like denominators and simplifying the results.
- Understands the rules for ordering and comparing fractions with like and unlike denominators.
- Is skilled at addition and subtraction of fractions with unlike denominators and simplifying the results.
- Is skilled at multiplying fractions with whole numbers.

Measurement and Data

- Understands data can be represented and interpreted using pie charts (circle graphs).
- Is skilled at measuring angles using a protractor. is skilled at drawing angles using a protractor. Is skilled at drawing angles using a protractor.
- Is skilled at finding volume using unit cubes.
- Is skilled at using the formula for finding volume of a right rectangular prism with whole number edge lengths.

Geometry

- Understands the different attributes of triangles.
- Understands the similarities and differences between or among two-dimensional and three-dimensional shapes.
- Knows the first number in an ordered pair indicates how far to travel from the origin in the direction of the horizontal axis, and the second number indicates how far to travel in the direction of the vertical axis.
- Understands the similarities and differences among the angles and lines of shapes. Understands how to compose a geometric shape with given conditions.

Additional Concepts Introduced:

Operations and Algebraic Thinking

- Add and subtract whole numbers and decimals.
- Multiply whole numbers and decimals.
- Make reasonable estimates.
- Solve word problems with open sentences.
- Can convert between improper fractions and mixed numbers.
- Solves Pan Balance problems to introduce algebraic expressions.
- Understands how to use exponents to evaluate numerical expressions.
- Understand how to use parentheses, brackets, or braces to evaluate numerical expressions.

Number and Operations in Base Ten

- Identify the place value of a digit up to billions and decimals to thousandths.
- Read, write and compare numbers up to billions and decimals to thousandths.
- Write numbers in standard, expanded and word notation.
- Can find and identify prime and composite numbers.
- Is skilled at adding and subtracting integers using a number line. (Positive & Negative)

Fractions

- Is skilled at adding mixed numbers. Is skilled at renaming fractions to simplest form.

Measurement and Data

- Identify and use data landmarks: interpret data.
- Understand how sample size effects results.
- Is skilled at measuring liquid volume and weight. Understands when to use the appropriate measurement tool for liquid volume or weight.

Geometry

- Understands how to compose a geometric shape with given conditions.
- Understands how to plot points in any quadrant.
- Is skilled at finding the area of triangles, parallelograms, trapezoids, and other polygons.
- Is skilled at finding area and circumference of circles.