

Second 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:

Counting and Cardinality

- Knows skip counting by 2's.
- Knows the difference between even and odd numbers.

Operations and Algebraic Thinking

- Understands addition as putting together and adding to numbers within 20. Understands subtraction as taking apart and taking from numbers within 20. Understands addition and subtraction can be represented in an equation form.
- Understands the commutative, identity, and associative properties of addition.

Number and Operations in Base Ten

- Understands that the three digits of a three-digit number represent amount of hundreds, tens, and ones.

Measurement and Data

- Understands the value of a collection of coins.
- Understands the rules for exchanging coins and bills.
- Understands time can be measured to the nearest quarter hour on an analog and digital clock.
- Understands a simple set of data can be organized in a variety of ways.
- Understands that length and distance can be measured using an appropriate measurement tool.
- Understands the rules for estimating, measuring, and expressing the length of an object to the nearest inch and centimeter.
- Understands that time can be measured to the nearest 5 minutes using A.M. and P.M. on an analog and digital clock.

Geometry

- Understands defining attributes of the following shapes: triangle, quadrilateral, pentagon, hexagon, trapezoid, rectangle, square, rhombus.

Additional Concepts Introduced:

Counting and Cardinality

- Read, write, and model with manipulatives whole numbers up to 10,000.
- Count on by 25's and 100's.

Operations and Algebraic Thinking

- Represent and solve problems involving addition and subtraction.
- Work with equal groups of objects to gain foundations for multiplication.
- Continue and describe simple numerical and nonnumerical patterns; find rules for patterns and use them to solve problems.
- Use and explain strategies to add and subtract 2-digit numbers.
- Demonstrate, describe, and apply change, comparison, and parts-and-total situations.
- Use strategies to estimate solutions for addition and subtraction problems.
- Use repeated addition, arrays, and skip counting to model multiplication.
- Use the $<$, $>$, $=$ symbols.
- Use equal groupings and equal sharing to model division.
- Calculate and compare values of coin and bill combinations.
- Add and subtract dollars and cents.

Number and Operations in Base Ten

- Use place value understanding and properties of operations to add and subtract.
- Use tally marks and numerical expressions to find equivalent names for numbers.
- Identify the values of digits in numbers up to 10,000.
- Order and compare whole numbers.
- Use materials and drawings to represent and explain fractions as equal parts of a region or collection.
- Use manipulatives and drawings to model equivalent names for $\frac{1}{2}$.
- Use area models to compare fractions.
- Read and write money amounts in dollars-and-cents (decimal) notation.

Measurement and Data

- Show and tell time to the nearest half-hour; write time in digital notation.
- Relate addition and subtraction to length.
- Calculate and compare values of coins and bills.
- Use graphs to ask and answer simple questions and draw conclusions.
- Read temperature to the nearest degree on both Fahrenheit and Celsius scales.
- Find the maximum, minimum, mode, and median of a data set.
- Use the language of probability to describe events.
- Count unit squares to find the area of rectangles.
- Describe relationships between days in a week and hours in a day.

Geometry

- Reason with shapes and their attributes.
- Draw line segments.
- Identify parallel and nonparallel line segments.
- Identify and describe 3-dimensional shapes.
- Create and complete simple 2-dimensional symmetric shapes or designs.