

Idaho Core Math Standards: SECOND GRADE Quick Guide

This is a one page “big picture” overview. We use the Pearson Investigations Math curriculum.

Essential Skills:

Operations and Algebraic Thinking:

- Represent and solve problems involving addition and subtraction.
- Add and subtract within 20.
- Work with equal groups of objects to gain foundations for multiplication.

Number and Operations in Base Ten:

- Understand place value.
- Use place value understanding and properties of operations to add and subtract.

Measurement and Data:

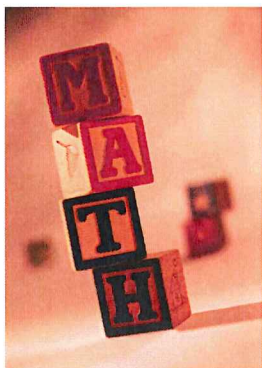
- Measure and estimate lengths in standard units.
- Relate addition and subtraction to length.
- Work with time and money.
- Represent and interpret data.

Geometry:

- Reason with shapes and their attributes.

Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.



Core Standards Vocabulary

(Review first grade list—attached)

Operations and Algebraic Thinking

One and two-step word problems
Adding to
Taking from
Putting together
Taking apart
Comparing
Unknown number
Addend
Rectangular array
Equal
Equation
Number line

Number and Operations in Base 10

Digit
Hundreds, tens, ones
Bundle
Skip counting by 5's, 10's, and 100's
Base-ten numerals
Expanded form
<, >, and = symbols
Properties of operations
Compose numbers
Decompose numbers
Mental math

Measurement and Data

Rulers, yardsticks, meter sticks, measuring tapes
Inches, feet, centimeters, meters
Points
Sums and differences
Analog and digital clocks
a.m. and p.m.
dollar bills, quarters, dimes, nickels and pennies
\$ and cent symbols
Line plot
Picture graph
Bar graph
Data set

Geometry

Attribute
Angles
Faces
Triangles
Quadrilaterals
Pentagons
Hexagons
Cubes
Rows and columns
Halves, thirds, half of, a third of, etc.

”Must Haves” in preparation for Third Grade*:

By the end of the year, all students will be able to:

1. **Fluently** add and subtract within twenty, using mental strategies.
2. **By memory**, know sums of any two one-digit numbers, demonstrated by 25 in a minute.
3. **Understand** place value: ones, tens, hundreds.

*“Must Haves” represent the most critical numeric requirements needed to advance to the next grade. Much more instruction and learning is required and outlined in the standards.