

Highland Park First grade Mathematics Curriculum

Standard Title: Operations & Algebraic Thinking

Course Information

Course: First Grade Mathematics

Length Per Day: 45 minutes per day

Brief Basic Description: Math at the first grade level focuses on representing and solving problems involving addition and subtraction, counting and writing numbers to 120, and understanding place value using tens and ones. It focuses on measuring, comparing and ordering objects by length, along with telling and writing time, and interpreting data on a graph. It focuses on identifying and constructing shapes, and understanding halves and fourths.

ESSENTIAL UNDERSTANDING:

First Grade mathematics curriculum is designed to:

- Identify relevant information for adding and subtracting in word problems
- Use different strategies to formulate and solve addition and subtraction equations
- Identify, create and solve equations associated with fact families
- Count and write numbers to 120
- Group and count tens
- Identify the tens and ones place
- Compare numbers using $<$, $=$ and $>$
- Measure, compare and order by length
- Tell, write and show time to the hour and half-hour
- Read, complete and interpret a graph
- Compose and decompose two-dimensional and three-dimensional shapes
- Divide shapes into equal shares of halves and fourths

Theme Samples:

1. Analyze
2. Formulate
3. Explain

Course Objectives and Expectations:

- Identify +, - and = with 100% accuracy
- Draw pictures to show understanding of answering word problems
- Utilize taught strategies under Instructional Best Practices to answer addition and subtraction equations and word problems with at least 80% accuracy
- Create and solve addition and subtraction equations with at least 80% accuracy
- Write addition and subtraction word problems
- Identify equations of fact families within 10 with at least 80% accuracy
- Solve for unknown numbers in addition and subtraction equations with at least 80% accuracy
- Create and solve addition and subtraction equations of a fact family within 10 with at least 80% accuracy
- Create addition and subtraction equations with at least 80% accuracy
- Use count(ing) on and count(ing) back to justify solving addition and subtraction equations with at least 80% accuracy

Student Objectives-

- I can add and subtract numbers to solve word problems.
- I can add and subtract.
- I can count on to add and count back to subtract.
- I can add and subtract within 20.

Pacing

Montana Common Core Standard

See Math in Focus Curriculum Guide

Timeline

Approximate length to teach unit

See Math in Focus Curriculum Guide

Montana Content Standards-

Operations & Algebraic Thinking

1.OA.A.1

- Represent and solve problems involving addition and subtraction.
- Use addition and subtraction within 20 to solve word problems.

1.OA.A.2

- Represent and solve problems involving addition and subtraction.

- Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.

1.OA.B.3

- Understand and apply properties of operations and the relationship between addition and subtraction.
- Apply properties of operations as strategies to add and subtract.

1.OA.B.4

- Understand and apply properties of operations and the relationship between addition and subtraction.
- Understand subtraction as an unknown-addend problem.

1.OA.C.5

- Add and subtract within 20.
- Relate counting to addition and subtraction.

1.OA.C.6

- Add and subtract within 20.
- Add and subtract within 20, demonstrating fluency for addition and subtraction within.

1.OA.D.7

- Work with addition and subtraction equations.
- Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.

1.OA.D.8

- Work with addition and subtraction equations.
- Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.

Resources

- Montana Core State Standards
- Daily Calendar Math
- Singapore Primary Math Strategies
- DIBELS Next (easyCBM)