

Grade 4 Mathematics

First Trimester

September 8 – November 4

(Check out our Math Parent Resources at

<http://www.tufsd.org/wi/mathresources/grade4.html>)

September: Exploring Mathematics

Essential Questions:

Can I identify, name, compare, and analyze the attributes of the 2 and 3 dimensional shapes?

What are the units of the metric system and how do I use them?

How can I use a bar graph to analyze data?

Can I create a bar graph from given data?

Skills:

Identify 2 and 3 dimensional shapes.

Understand different attributes and select the appropriate type of unit for measuring each attribute.

Become familiar with standard units in the customary and metric systems.

Investigate, describe, and reason about the results of subdividing, combining, and transforming shapes.

Compare and analyze attributes of 2 and 3 dimensional shapes and develop vocabulary to describe the attributes.

Develop and use strategies to estimate.

Interpret information in a bar graph.

Create a bar graph from given data.

Investigating Length

Essential Questions:

How can I estimate/measure length using standard/non standard units?

How do I convert between standard units of length?

How do I measure length to the nearest $\frac{1}{2}$ and $\frac{1}{4}$ inch?

How do I select appropriate measurement tools for my task?

Skills:

Estimate measures with nonstandard and standard units.

Convert between metric units.

Convert inches to feet and feet to yards.

Understand the distance represented by 1 meter.

Describe, extend, and make generalizations about numeric patterns.

Carry out simple unit conversions within the metric system.

Use appropriate customary units to measure length.

October: Using Addition and Subtraction

Essential Questions:

How do the four mathematical operations relate to one another?

How can I use addition and subtraction to solve problems about estimation, and money?

Skills:

Understand meanings of operations and how they relate to one another.

Identify relationships between operations to solve problems.

Use addition and subtraction to solve problems.

Develop fluency in adding and subtracting whole numbers.

Develop fluency with whole number computations.

Solve problems involving amounts of money.

Use estimate to help solve problems.

Understand the place value structure of the base ten number system.

Investigating 5-Digit Numbers

Essential Questions:

How can we use large numbers to help explain the world around me?

Skills:

Understand the place value structure of the base ten number system.

Explore the concept of 1,000 & 10,000.

Read, write, compare, and make estimates with 4 and 5 digit numbers.

Read and interpret data presented in a graph.