

Unit 2: Chapter 2 Represent and Interpret Data

Content Area: **Mathematics**
Course(s): **Math 3**
Time Period: **October**
Length: **3 weeks**
Status: **Published**

Unit Summary

In this unit the students will create several types of graphs such as bar graphs, scaled picture graphs and line plots. Students will be able to interpret the data to ask and answer one and two step word problems.

Standards

MA.3.MD.B.3	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs.
MA.3.MD.B.4	Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units— whole numbers, halves, or quarters.
MA.3.OA.D.8	Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.
MA.3.NBT.A.2	Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.
TECH.8.1.5	Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.

Student Learning Objectives

Students will learn to:

- organize data in tables and solve problems using the strategy *make a table*.
- read and interpret data in a scaled picture graph.
- draw a scaled picture graph to show data in a table.
- read and interpret data in a scaled bar graph.
- draw a scaled bar graph to show data in a table or picture graph.
- solve one-and two-step compare problems using data represented in scaled bar graphs.
- read and interpret data on a line plot and use data to make a line plot.

Essential Questions

How can you represent and interpret data?

Enduring Understandings

Students will understand that there are multiple ways to represent and interpret data.

Application

Students will be able to independently use their learning to:

- show some ways to organize data so it is easy to use.
- analyze data in graphs to solve problems.

Skills

Students will be skilled at:

- Using picture graphs and interpreting them.
- Using bar graphs and interpreting them.
- Solving problems using data from graphs.
- Using and making line plots.