Unit 4a-Represent And Interpret Data

Content Area: **Mathematics**
Course(s): **Math 3**
Time Period: **Marking Period 4**
Length: **MP4 Topic 7 7-1 to 7-5**
Status: **Published**

Essential Questions

- How can data be represented, interpreted, and analyzed?

Big Ideas

- **Read and Make Graphs-** Students learn to read graphs and to generate titles, labels, scales, and pictures or bars.
- **Similar Data in Different Graphs-** Students see the same kind of data represented in picture graphs and bar graphs and build an understanding that there can be more than one way to display a set of data.
- **Connection to Understanding Multiplication-** Students learn that scaled picture graphs use a picture or symbol to represent equal groups of a given size. Scaled bar graphs use intervals to represent equal groups.

Diversity Integration

Objective: Students will be able to create line plots based on cultural celebrations and holidays.

Description of Activity: Students will create a question regarding a cultural celebration or holiday that they can use to survey the class. The students will create a line plot using the data that they collected. The class will discuss the data together.

CSDT Technology Integration

8.1.5.DA.1: Collect, organize, and display data in order to highlight relationships or support a claim.

Activity:

Students will use technology and create a graph

Enduring Understandings

Measurement and Data

3.MD.B (M) Represent and interpret data

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. For example, draw a bar graph in which each

square in the bar graph might represent 5 pets

Operations and Algebraic Thinking

3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

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.

Mathematical Practices Focus

6. Attend to precision.