Unit 2a Classify and Count Data

Content Area: **Mathematics**
Course(s): **Math K**
Time Period: **Marking Period 2**
Length: **12**
Status: **Published**

Essential Questions

How can classifying data help answer questions?

Big Ideas

- Number Uses, Classification, and Representation: Numbers can be used for different purposes, and numbers can be classified and represented in different ways.
- Comparison and Relationships: Numbers, expressions, measures, and objects can be compared and related to other numbers, expressions, measures and objects in different ways.
- Data Collection and Representation: Some questions can be answered by collecting and analyzing data, and the question to be answered determines the data that need to be collected and how best to collect the data. Data can be represented visually using tables, charts, and graphs. The type of data determines the best choice of visual representation.
- Practices, Processes, and Proficiencies: Mathematics content and processes can be applied to solve problems.

Cross- Curricular Integration

Integration Area: Social Studies

6.1.2.Civics PI.4: Explain how all people, not just official leaders, play important roles in a community.

Activity: sort careers

Diversity Integration

Religion

Objective: Students will collect data and graph the favorite holiday their family celebrates.

Activity: Students will each fill in a box on a class graph recording their favorite holiday. Students will interpret the data to determine which is the most and the least.

CSDT Technology Integration

8.1.2.E.1 Use digital tools or online resources to explore a problem or issue.

Activity: Students will sort shapes and use the Seesaw Learning app to take a picture. Students will record themselves describing how they sorted the shapes (size, shape, color, etc.)

Career Education Integration

9.2.4a.1 Identify reasons why people work, different types of work, and how work can help a person achieve personal and professional goals.

9.2.4a.2 Identify various life roles and civic and work-related activities in school, home, and community.

9.2.4a.3 Investigate both traditional and nontraditional careers and relate information to personal likes and dislikes.

Connection: Sort pictures of workers into job groups (home, school, community), count and compare groups.

Activity: The students will sort, count and graph pictures of workers into groups.

Enduring Understandings

Counting & Cardinality

K.CC.B.5 Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.

K.CC.C.6 (M) Identify whether the number of objects in one group is greater than, less, than, or equal to the number of objects in another group, e.., by using matching and counting strategies.

K.CC.C.7 (M) Compare two numbers between 1 and 10 presented as written numerals.

Measurement & Data

K.DLA.1 (M) Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (Clarification: Limit category counts to be less than or equal to 10.)