



Favorite Foods Survey and Graphing Activity

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Math
Grades K-2



Learning Objectives

[CCSS.Math.Content.2.MD.D.10](#)

Draw a picture graph and bar graph to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.

Materials Needed

- Paper (graphing, construction, or notebook)
- Pencil (and crayons, if desired)
- Optional: iPad

Introduction

After learning about various types of graphs, students will set out to gather data and create their own graphs based off that data. Students will also generate questions about their graphs to be answered by classmates.

Procedure

Day 1

1. Students will brainstorm four different foods of their choice and create a tally chart with those foods as categories.
2. Students will walk around the classroom, asking their classmates which of the foods they like best.

Day 2

3. Students will take their tally data and turn it into a picture graph and bar graph.

Day 3

4. After completing the tally chart, picture graph, and bar graph, students will generate at least three questions based off their data. Examples could include: Which food had the most votes? How many more students like pizza than tacos? How many fewer votes would spaghetti need to have to have the same number as hamburgers?

Day 3 (continued) or Day 4

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5. After all students have completed their charts and questions, students will switch papers with a partner.
6. The partner will answer the three questions by examining the charts. They will then add one more question before returning it to the original owner for the owner to answer.

Optional or Modification for EL learners: Instead of writing the answers to the questions, students could record themselves answering the questions using Seesaw, Chatterbox, or other technology tools.

Evaluation

Students will turn in their three graphs (tally, picture, bar) for the teacher to evaluate (Evaluation ideas: did students include a title, key, and labels? Were the graphs neat? Did the students formulate three questions? Did the students answer their partner's question accurately?).