## Candy Bar Graphing

**Unit 1: Groovy Graphing**

### Grade Level
Grade 5

### Overview
In this task, students will collect and organize candy wrappers and create double bar graphs to display the data. This task can also introduce changing fractions into percents and then displaying the percentages using a circle graph.

### Key Standards

**M5D2. Students will collect, organize, and display data using the most appropriate graph.**

**Differentiation:**

**M5N5. Students will understand the meaning of percentage.**

- b. Apply percentage to circle graphs.

### Possible Materials
- candy bar graphing power point
- task cards for each group-2 per group
- graphing paper-one per student
- poster board
- miniature Hershey’s candy bars (can use other candy as well like starburst)
- rulers
- markers
- brown paper bags

### Task
The teacher will begin the lesson by introducing the standard that will be taught (displayed on power point slide). The teacher will discuss with students the essential questions that will be answered by completing the assignment. The teacher will then ask students to think back to the lesson on double bar graphs and share some of the key components of a double bar graph. Then she will allow students to share the key components. Once all of the components have been shared by the students, the teacher will display the components on the promethean board.

Next, the teacher will tell the students that today they will complete an activity to practice
making a double bar graph. She will have students assist in passing out the supplies. The teacher will already have the candy distributed in the brown bags for each group (You will want to vary the candy for each bag so that your bar graphs turn out differently). Each group will receive a bag with candy pieces, a piece of poster board, a task card, and each person will receive an activity sheet. The teacher will explain the overall objective for the lesson, but the students will be responsible for following the task card.

The students will be responsible for pulling candy bars out of the brown bag and then creating a graph using the candy bar wrappers on their poster board. Once they have completed their group graph they will complete a regular bar graph using their data on their graphing paper page. To differentiate, the teacher will provide a higher level group the opportunity to make a circle graph with their data once they finish the original double bar graph. The teacher will walk around and monitor and question during the activity. The students will then share their graphs with the class so that the class can compare the results and see if the double bar graph was the best way to display the data.

Sample Questions

- Ask students about the process (What part are you labeling (x or y axis?), Have you remembered all the necessary components of your graph?)
- Ask students questions about their specific graph using Bloom’s Taxonomy.
- Ask questions to be sure students understand the next step in the activity.

Assessment Ideas

Civil War Double Bar Graph Assessment - One way to assess the double bar graph portion of this standard is to provide casualty numbers from the different battles in the Civil War. Students will make a double bar graph to display the data and answer questions about their graph.

To assess the standard you could take a survey with your class and have the students collect and organize the data individually. The students could then take the information and decide which graph is the best way to display the data.