C:\Documents and Settings\zastrocm\Local Settings\Temporary Internet Files\Content.IE5\JXZM5080\MC900384360[1].wmf **Chocolate Chip Cookie Lab**

**Benchmarks:** MA.6.S.6.1 Determine the measures of Central Tendency (mean, median, mode) for the set of data

MA.6.S.6.2 Select and analyze the Measures of Central Tendency to represent, describe, analyze and / or summarize a data set into a bar graph representation

**EQ:**

Describe how measures of central tendency are used in a real world situation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Activity:**

1. Choose one brand of cookie and record the brand name on your data sheet
2. On the paper plate, break the cookie into two piles: one pile of cookie pieces and one pile of chocolate chips pieces
3. Count the pieces of chocolate, in the pile, and **record** under Number of Chips column on data sheet
4. Gather data from 4 other people: write their name in the first column and **record** the Number of Chips each counted from the same brand
5. Choose another brand of cookie and record the brand name on your data sheet
6. Follow Steps # 2 & 3 with this cookie brand and record in the second box on data sheet the Number of Chips you counted
7. Follow Step # 4 for data with this brand – they do not have to be the same people
8. For each brand, find the SUM and record in box on data sheet
9. **Calculate** the MEAN, MEDIAN and MODE for each brand and **record** on data sheet
10. Check your calculations for “reasonable answer”
11. Construct a double bar graph : Vertical axis – Number of chips

Horizontal axis – Mean, Median and Mode

Key – two colors representing the two brands of cookies

**Evidence of Learning:**

1. Gathering and sharing of data
2. Recording and calculating measures of central tendency
3. Construction of double bar graph identifying the comparison of two brands of cookies and the number of chips

**Conclusion:**

Write two statements about what you notice in the picture representation (graph) of the real life data you collected, shared and recorded. Be sure you have a complete statement (Capitals and end punctuation)

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