



**Grade Level:**

*6<sup>th</sup>-8<sup>th</sup>*

**GPS / CC**

**Addressed:**

*Using Ratios*

*6RP1, 6RP3*

*7RPA2*

*Display and*

*Summarize Data*

*6SPB4*

*8SPA1*

**Materials Needed:**

- *Lettuce for Taste Test*
- *Data Collection Sheets (Included)*

**Time Needed:**

*1 hour*

**Title:** Lettuce Calculate!

**Goal:** Students will collect data and calculate percentages and ratios, and use the data to create scatter plots.

**Objectives:**

- Students will understand how to calculate percentages.
- Students will understand how to calculate ratios.
- Students will understand how to create and analyze scatter plots.

**Lesson Outline:**

*Engage:* Taste Test

*Explore:* Data Collection (Ratios and Percentages)

*Explain:* Data Collection (Scale 1 – 10)

*Extend:* Comparing Data

*Evaluate:* Analyzing Data



## Lesson Plan:

### Engage:

- Conduct a Lettuce Taste Test
- Discuss opinions of lettuce

### Explore:

- Collect data on student opinions on a tally chart (Loved it, It was Okay, Didn't Care for it)
- Review calculating the ratios for each opinion
  - Model finding the ratio for "Loved it"
  - Work in small groups to find the ratio for "It was Okay"
  - Work independently to find the ratio for "Didn't Care for it"
- Review calculating the percentages for each opinion
  - Model finding the percentage for "Loved it"
  - Work in small groups to find the percentage for "It was Okay"
  - Work independently to find the percentage for "Didn't Care for it"
- Discuss the results of the data collection (in terms of ratios and percentages)

### Explain:

- Collect data on student opinions on a tally chart (Scale 1 – 10)
- Transfer data from tally chart to scatter plot
- Discuss the results of the data collection (in terms of data clusters, outliers)

### Extend (optional):

- Collect an Additional Set of Data
  - Boys / Girls?
  - Class 1 / Class 2?
  - Grade 1 / Grade 2?
- Compare Data Sets (in terms of percentages, ratios, and distribution of data)

### Evaluate:

Write a paragraph describing the results of the data collection citing specific data points to support your claims.



**Data Collection (Loved it, It was Okay, Didn't Care for it)**

Taste Tested Item Lettuce

Loved It	It was Okay	Didn't Care for It
Total ___ / Whole ___ Ratio ___:___ Percentage ___%	Total ___ / Whole ___ Ratio ___:___ Percentage ___%	Total ___ / Whole ___ Ratio ___:___ Percentage ___%



Data Collection (Scale 1 – 10)

Taste Tested Item Lettuce

1	2	3	4	5	6	7	8	9	10

Using the tally marks above, create a scatter plot on the number line below.

