**6-8 Activities 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

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**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

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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)
6-8 Activities Lettuce
Calculate!

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

<table>
<thead>
<tr>
<th>Loved It</th>
<th>It was Okay</th>
<th>Didn’t Care for It</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Total ___ / Whole ___.  
Ratio ___:___
Percentage ___%

Total ___ / Whole ___.  
Ratio ___:___
Percentage ___%

Total ___ / Whole ___.  
Ratio ___:___
Percentage ___%
### Data Collection (Scale 1 - 10)

<table>
<thead>
<tr>
<th>Taste Tested Item</th>
<th>Lettuce</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
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<td>2</td>
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<td>9</td>
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<td>10</td>
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</tbody>
</table>

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