Line Graphs

STRAND: Probability and Statistics

STRAND CONCEPT: Data Representation and Interpretation

SOL 4.14a,b

Remediation Plan Summary

Students will use their knowledge of line graphs to match graphs with data sets.

Common Misconceptions

Students have a difficult time reading a line graph. They don’t know how to interpret the graph and match it to data.

Materials

- Computer with internet
- When It Rains Activity Sheet
- Chart paper

Introductory Activity

Ask students to name all the different types of graphs they have worked with in school. Use the computer to display a city with a line graph of high temperatures, ask what do you notice? What do you see? Get the students to understand that a line graph displays change over time. The change in this graph is the temperature and the time is over several days. Go over the parts of a graph and how to read a line graph. Make sure the students understand how to clearly read and interpret all the data, when the temperature rises, when it falls and when it stays the same.

Plan for Instruction

1. Distribute When It Rains Activity Sheet.
2. Have the students work in pairs discussing and matching each line graph to its data set.
3. Compare data in a line graph to the same data in a bar graph.
4. Follow up with a whole class discussion about how the data matches and how they know it matches.

Pulling It All Together (Reflection)

Exit card-Have the students write a few sentences describing how to read a graph and interpret the data.

Note: The following pages are intended for classroom use for students as a visual aid to learning.

Virginia Department of Education 2018
When It Rains

1. 

2. 

3. 

4. 

5. 

6.
When It Rains

NORMAL PRECIPITATION
(in centimeters)

<table>
<thead>
<tr>
<th></th>
<th>Kansas City</th>
<th>New York City</th>
<th>Fairbanks</th>
<th>Honolulu</th>
<th>Eureka</th>
<th>Miami</th>
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</thead>
<tbody>
<tr>
<td>Jan.</td>
<td>4</td>
<td>8</td>
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<td>12</td>
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</tbody>
</table>
Compare the data below represented as a bar graph and as a line graph. How are they similar and how are they different? Which graph is more appropriate for displaying this data?