Making Sense of Data!

Directions: Use the graph below to answer Questions 1-3.

1. For each of the six tree species shown on the graph, describe the trendline. Is the slope Positive, Negative, or Neutral (no change)?

<table>
<thead>
<tr>
<th>TREE SPECIES</th>
<th>TRENDLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deciduous</td>
<td></td>
</tr>
<tr>
<td>Black Locust</td>
<td></td>
</tr>
<tr>
<td>Red Oak</td>
<td></td>
</tr>
<tr>
<td>White Oak</td>
<td></td>
</tr>
<tr>
<td>Coniferous</td>
<td></td>
</tr>
<tr>
<td>Red Pine</td>
<td></td>
</tr>
<tr>
<td>White Pine</td>
<td></td>
</tr>
<tr>
<td>White Spruce</td>
<td></td>
</tr>
</tbody>
</table>

2. Which 3 species show the highest growth in Michigan’s current average April temperature?

3. Which 3 species show the highest growth in the emissions scenario?
Making Sense of Data!

4. How do the growth trends of deciduous or coniferous trees differ?
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____________________________________________________________________________________
____________________________________________________________________________________

5. a) How will Michigan forests be impacted by climate change? Use the Tree Information Cards and the information you collected from the graphs to make your prediction. [HINT: Did you see any species that grew more under the emissions scenario? Less?]
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

b) How will the changes you predicted impact humans? [HINT: Remember why forests are important from Lesson 1. These included nutrient cycling, jobs/careers, preventing soil erosion, recreation, habitat, air purification, carbon sink, water retention, cooling, economy, & habitat.]
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____________________________________________________________________________________
____________________________________________________________________________________

6. What other factors affect tree growth? Brainstorm with your group and list as many as you can below.
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