Fieldtrip to Rose Hills Foundation Conservatory for Botanical Science

Upon arriving at the entrance to the Huntington Library obtain a map for the gardens. Follow the map to number 9, the Rose Hills Foundation Conservatory for Botanical Science. It should be off to your right.

**Tropical Rain Forest**
1. What does it feel like when you walk in the door to the Conservatory? Compare to the conditions outside.  
   ____________________________________________________________________  
   ____________________________________________________________________  
   ____________________________________________________________________  
2. Where in the world are tropical rain forests located? ________________  
   ____________________________________________________________________  
3. What spices come from plants located in the tropical rain forest?  
   ____________________________________________________________________  
4. How much rain (in inches) does the rain forest get each year? ________
5. Using the provided gloves, stick your hand deep into the compost bin. What does it feel like? ________________________________ Record the temperature. ______

**Cloud Forest**
1. What three adjectives are used to describe the cloud forest?  
   1. _____________
   2. _____________
   3. _____________
2. Where is the cloud forest located? ________________________________
3. Record the percent humidity located on the cloud forest sign. ________
4. How do aerial roots help a plant to absorb water?  
   ____________________________________________________________________
   ____________________________________________________________________
5. What about the cloud forest environment would make this possible?

__________________________________________________________________

__________________________________________________________________

6. What are plants that grow on other plants called? _________________

7. Draw a picture of a branch that has had other plants growing on it.

Bog

1. Record the percent humidity in this room. _________________

2. What is a bog?

__________________________________________________________________

__________________________________________________________________

3. What is the largest bog in North America? Where is it located?

__________________________________________________________________

__________________________________________________________________

4. What type of moss helps is considered the main ingredient in bogs?

__________________________________________________________________

__________________________________________________________________

5. What is a pitcher? Where does it get its nutrients from? ___________

__________________________________________________________________

__________________________________________________________________

6. Use the pH meters to determine the pH of pitcher juice and water. Record both.

__________________________________________________________________

7. How long does it take for a flytrap to digest its prey and reopen? _____
8. Draw and label a cross section of the bog fond in the “aquarium.”

Plant Lab

1. Plants often have odors that attract or repel animals in their environment. Pick 3 plants in the scent section and describe the smell. Then identify when you think it might attract or repel animals.

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>Description of Smell</th>
<th>Attract or Repel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Provide two examples from this room of plants that have made adaptations in order to survive. Explain how the adaptation works.
   1. __________________________________________________________
   2. __________________________________________________________

Timeline

3. When was the first evidence of photosynthesis? ______________
4. When did algae develop? ________________
5. When did the first plants develop? ________________
6. When did the first dinosaurs appear? ________________