Evidence of Evolution Station Activities

___________________________________________
Student Name

___________________________________________
Class Period

___________________________________________
Date

Answer all questions from each station in the student booklet. Do not write on any materials at the station unless directed to.


**Station 1: Fossils**

Questions

1. Do you think the pattern of change shown by the horse teeth supports this hypothesis? Why or why not?

2. How would you test this hypothesis?

**Station 2: Biogeography**

Questions:

1. Do you think the information and map data support Allison’s hypothesis? Why or why not?

2. How would you test this hypothesis?
Station 3: Phylogeny
Review Questions

1. Which two species are most closely related?

<table>
<thead>
<tr>
<th>Number of Amino Acid Differences between Species</th>
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</thead>
<tbody>
<tr>
<td>Species 1</td>
</tr>
<tr>
<td>Species 1</td>
</tr>
<tr>
<td>Species 2</td>
</tr>
<tr>
<td>Species 3</td>
</tr>
<tr>
<td>Species 4</td>
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</tbody>
</table>

A Species 1 & 2  
B Species 2 & 3  
C Species 3 & 4  
D Species 1 & 4

Use the graphic above to answer questions 3–4.

3. According to the diagram, which of the following pairs of insect groups likely share the most homologies?
   A aphids and bees  
   B wasps and beetles  
   C bees and wasps  
   D moths and mosquitoes

4. According to the diagram, which of the following pairs of insect groups likely share the least homologies?
   F beetles and moths  
   G grasshoppers and mosquitoes  
   H mosquitoes and flies  
   J beetles and bees