Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_

**What Did *T. rex* Taste Like?**

<http://www.ucmp.berkeley.edu/education/explorations/tours/Trex/index.html>

**Folder 1**

**Main Idea(s)**

1. What are
   1. Eukaryota?
   2. Archea?
   3. Bacteria?
2. Define
   1. Lineage
   2. Common Ancestor
3. The common ancestor of all living things can be traced back to \_\_\_\_\_\_\_\_ years ago.
4. What is the best definition of lineage?
5. Within this folder you compared the history of a single family to the history of all life. What are some things that they have in common?

**Folder 2**

**Main Idea(s)**

1. List the seven animals shown
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Lines on the diagram represent \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The place where two lines meet represents a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. A single line that two lineages share is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. A line that belongs to only one organism is its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. Organisms that share a most recent common ancestor are more/less closely related to each other than organisms that share an ancestor farther back in history.
7. Lineages can be traced back in time to find a point of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Folder 3**

**Main Idea(s)**

1. Which is more closely related to caimans, hares or parrots? \_\_\_\_\_\_\_\_\_\_
2. Cladograms show who is more closely related to whom based on \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ inherited from a \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Draw the cladogram below. Include the locations of the 6 features listed.
4. What is the only trait all the animals share? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Which features do humans, hares, caimans, and parrots share that the other three lineages did not inherit? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Which of the tetrapods have an opening in front of the eye? \_\_\_\_\_\_\_\_\_\_

**Folder 4**

**Main Idea(s)**

1. In the table, what do the following symbols represent?
   1. + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. 0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Fill in your table on the next page as you go through traits for the different animals. Use the symbols from question 1 above.
3. Does *T. rex* have a bony skeleton? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. List the three features that will be examined to see if T. rexis more closely related to caimans or parrots.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Update your table.
6. Evidence suggests that *T. rex* is more closely related to \_\_\_\_\_\_\_\_\_\_\_\_.
7. Go back to Folder 3 cladogram and add *T. rex* and additional features.
8. *T. rex* tastes like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. What evidence was used to determine what *T. rex* tasted like?

**Congratulations!! You’re Finished!!**