**Explorations Through Time - Life Has a History**

<http://www.ucmp.berkeley.edu/education/explotime.html> - Go to "Life Has a History" ' Level 2

1. How many different species of living things exist today? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Which group of animals has the largest number of species? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. How many mammal species exist today? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Number the organisms from 1 (most abundant) to 8 (least abundant)
\_\_\_\_ Mammals \_\_\_\_ Molluscs\_\_\_ Roundworms \_\_\_\_ Arthropods \_\_\_\_ Flatworms

5. What is biodiversity (click on the purple links for definitions): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. 470 Million Years Ago (click circle for a "closer look" at the period)
What was the name of the period? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
What was the dominant predator? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
What was the first arthropod? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. 160 Million Years Ago
What was the name of the period? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
What large marine reptile existed? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. How old is the earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Fill in the blanks of the timeline



10. The best source of evidence for determining events in earth's history is \_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. What is a paleontologist? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Identify three fossils from the image. Name them and point to them with an arrow

13. What features are found in therapods? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. What is a cladogram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. What is divergence? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. To which animal are the crane and eagle most closely related? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. What other data (besides physical features) do scientists use to find if organisms are related? List 3 things. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
18. What birds on the Galapagos islands were adapted to different regions? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
19. The beaks of the birds vary with what? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
20. What would happen if the environment changed and only plants with larger, harder seeds survived.How do you think that might affect the population of Geospiza fortis finches? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
21. What is geographic isolation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
22. Identify the extinct creature. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
23. Name two animals that have gone extinct since humans have been present? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_