**Evolution Extinct Species Topics**

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| **Vertebrate Origins** | **Saurischian Reptiles** | **Ornithischian Reptiles and Birds** | **Mammal Origins** | **Human Origins** |
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**Poster Pieces:**

\_\_\_\_\_A**.** PARAGRAPHS based on 2-column research question  **(20 points)**

\_\_\_\_\_B. Family Tree Drawing (cladogram/phylogenetic) **(10 points)** showing the organism’s

ancestors and the traits that set apart your group from others.----Will be explained in class Person 1 & 2

\_\_\_\_\_C. Map showing **(10 pts.)** Person 1 & 2

\_\_\_\_\_1. location of origin—where the first fossil was found

\_\_\_\_\_2. Pin-point other fossil finds that have been made since

**3-Dimensional representations of the organism AND/Or Animation** (1 for each person in group)

\_\_\_\_\_1. Describe/show 3 characteristics that made your organism well adapted to its environment.

Person 1

**(20 pts.)**

\_\_\_\_\_2. Describe/show characteristics that were modified in organisms that evolved from your extinct

organism. (need to show the original structure and a new structure from a related organism that

has been modified. Person 2

**(20 pts.)**

**\_\_\_\_\_ Works Cited List (10 pts.)** Person 1 & 2

**Extinct Organism Questions for Museum Trip**

**Person 1: You will use this information to write 3-4 paragraphs that describe what the physical structure of your organism tells us.**

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| **1. How do we know what this organism ate( focus on the physical structures such as jaws, teeth, grasping claws, etc)?** |  |
| **2. How did your organism move?** |  |
| **3. What was the relationship of your organism to other organisms?(predator/prey, herding, etc.)** |  |

**Person 2: You will use this information to write 3-4 paragraphs that describe what kinds of information scientists learned from the fossils that have been found.**

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| **4. What was the environment like during the life of this organism? Use geologic time scale and focus on climate and plant life.** |  |
| **5. How did the organism go extinct?** |  |
| **6. Is there anything else be learned from the fossils? (where they lived/when they lived, other physical structures that were used for mating, heat regulation, etc.)** |  |

**Both Person 1 and 2: Read the placards and look for the following information. You should look on the phylogenetic (family) tree placards as well as other placards near your organism. You will use this information to construct a phylogenetic tree of your organism in relationship to its closest relatives.**

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| **What are the characteristics that link your organism to its ancestors?** |  |
| **What are the characteristics that separate your organism from its ancestors?** |  |
| **What are the adaptations of more recent relatives to your organism? (How are the two organisms similar and different?)**  **Convergent Evoluton can be used here** |  |

**Both Person 1 and 2: You will write one paragraph (together) explaining the hypotheses surrounding your organism.**

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| **7. What hypotheses have scientists developed about your organism?** |  |