

GLY 1102 Darwin & Dinosaurs

What can we learn from fossils?

Objective: To learn how paleontologist use fossils and rocks to learn about extinct organisms and paleoenvironments.

Materials:

One set of pictures of living animal

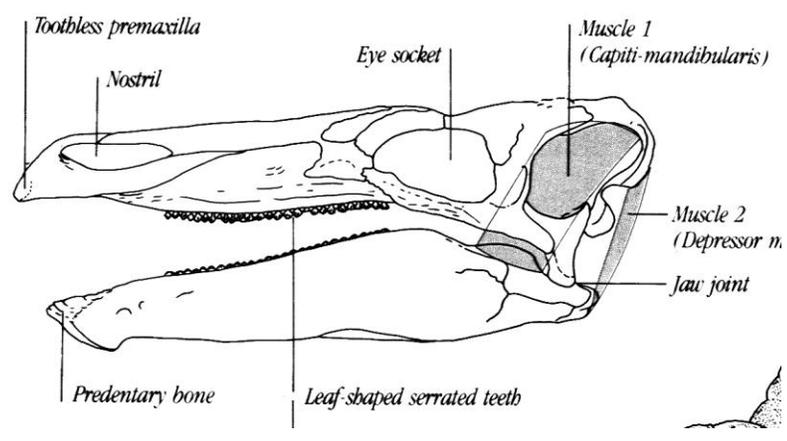
One set of pictures of extinct animal

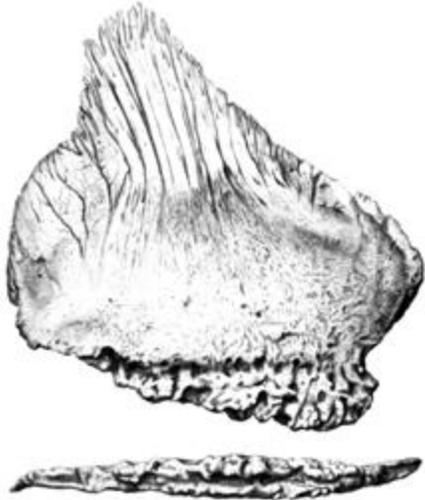
Procedure:

1. Look over the information packet on the modern animal.
 - a. List all information you know about this animal.
 - i. Make sure to include what the animals ate (herbivore/ carnivore), its posture, how its relative speed (fast/slow), if it was quadrupedal or bipedal.
 - ii. Support the known information with evidence from the skeleton, make sure to be specific (i.e. do not just state I know this based on the teeth, what specifically about the teeth).
2. Look over the information packet on the extinct animal.
 - a. List all information and evidence that supports what you can determine about this animal.
 - i. Make sure to include what the animals ate (herbivore/ carnivore), its posture, its relative speed (fast, slow), if it was quadrupedal or bipedal.
 - ii. Support the known information with evidence from the skeleton, make sure to be specific (i.e. do not just state I know this based on the teeth, what specifically about the teeth).

- b. Research the locality of the extinct animal and determine the environment in which the animal lived. Make sure to include evidence from the geology that supports the conclusions.
- c. Look at the picture of the horse skeleton making note of the outline of the body relative to the skeleton. Sketch an outline of the *Stegosaurus* body on the illustration of the *Stegosaurus* skeleton.

Extinct animal: *Stegosaurus*
Location: Morrison Formation
Age: Late Jurassic





Stegosaurus plate
First hatchling *Stegosaurus* footprints



Modern animal: *Equus* (Horse)
Teeth

