

## #26: Montana Dinosaurs

name:

### DINOSAURS

Go to <http://formontana.net> and then click on picture # 44.

1. Malta is a small town located in north-central Montana. What were the duckbill-like lips of this dinosaur used for?
2. Montana's state dinosaur is the Maiasaura. What does the dinosaur in the image have in common with the Maiasaura?
3. What was so special about the dinosaur called Elvis, which was found near Malta?
4. What is the mission of the Judith River Dinosaur Institute?

Go to <http://formontana.net> and then click on picture # 87.

5. Why did the Guinness Book of World Records designate this Montana fossil as the "best-preserved dinosaur in the world"?
6. What was the environment in north central Montana like when this dinosaur died 77 million years ago?
7. Most dinosaur fossils are just bones. List ALL of the other things that were included on or in this dinosaur.
8. All of the "soft stuff" that was found has become hard (petrified). Explain how this happens.
9. Why don't most animals become fossils after they die?

10. What must have happened to Leonardo soon after he died?
  
11. Explain the good news that the Judith River Dinosaur Institute got in April of 2005.
  
12. **Click on the Hot Link titled “More photos of Leonardo”.** What does the top image show?
  
13. Several other great dinosaur fossils have been found in the Malta area (north central Montana). **Select (click on) one of them: Elvis, Roberta, or Peanut,** and then tell how that one is unique (special) in its own way.

#### **DINOSAURS NEAR CHOTEAU**

Go to <http://formontana.net> and then click on picture # 60.

14. Choteau is about 40 miles northwest of Great Falls. What two discoveries did Horner make near Choteau?
  
  
  
  
  
  
  
  
  
  
15. What killed the dinosaurs that were found near Choteau?
  
  
  
  
  
  
  
  
  
  
16. What two things about the Egg Mountain discoveries (besides the nests) indicate that these dinosaurs cared for their young?
  
  
  
  
  
  
  
  
  
  
17. What does the bone bed discovered by Horner’s team in the 1980s suggest regarding dinosaur behavior?
  
  
  
  
  
  
  
  
  
  
18. **Click on the Hot Link titled “More about the Choteau area fossils “.** What is name of the rock layer (formation) that contained the fossils?

19. When was this material deposited, and what was the environment like in that area at that time?
20. Horner served as a technical advisor for the movie Jurassic Park. In fact the main male character was modeled after him. Horner grew up in Shelby, Montana. Where is Shelby and what is its population? (Use Montana highway map for help.)

### **K-T BOUNDARY**

Go to <http://formontana.net> and then click on picture # 56.

21. These photos were taken in Garfield County. Use your Montana Highway Map to find out the name of the largest town in Garfield County?
22. Dinosaurs died off at the end of the Cretaceous Period some 65 million years ago. Rocks formed in the Tertiary Period (right after the Cretaceous) do not have fossils of dinosaurs. Why does the presence of Iridium in the clay that separates rock layers from these periods suggest that an asteroid may have killed the dinosaurs?
23. Most geologists now believe that it was an asteroid impact that killed the dinosaurs. Where is the crater?
24. This is a part of the state where plate tectonics have not caused extensive folding and faulting of rock layers as it has in western Montana. What is the specific name of the layer (formation) found just beneath the K-T clay?
25. Click on the Hot Link titled "Map of the World 65 million years ago". What is used to mark the location of the Chicxulub impact site on this map?
26. What was the big difference between North America 65 million years ago compared to today?