

- |  |                       |
|--|-----------------------|
| 1. Earth's crust hardened: There was no life, no water, and no atmosphere.   | 4.6 billion years ago |
| 2. Blue green algae: This first life on earth was microscopic and lived in the sea. Today we call it Spirulina.  | 3.5 billion years ago |
| 3. Fish: These animals were the first vertebrates in the sea. There was no life on land.   | 500 million years ago |
| 4. First plants on land: These were simple plants like mosses and ferns. Small insects crawled onto land.  | 440 million years ago |
| 5. Amphibians: (am-FIB-ee-ans) These were the first vertebrates to live on land, but returned to the water to lay eggs. They were related to frogs and salamanders.  | 395 million years ago |
| 6. Insects: Dragonflies were some of the first insects to fly. Their wingspan was 30 inches. Insects were everywhere!  | 345 million years ago |
| 7. Dimetrodon: (dye-MEET-row-don) This large reptile had a huge fin on its back and looked like a dinosaur, but it wasn't. Its legs were bent out from its sides like an alligator, while a dinosaur's legs were attached under its body like an elephant. Its tracks were found in the red rocks at present day Jemez Pueblo. | 280 million years ago |
| 8. Coelophysis: (SEEL-o-FYE-sis) This was one of the first dinosaurs and its fossil bones were discovered at Ghost Ranch. It was a predator the size of a turkey and is the NM State Dinosaur.   | 225 million years ago |
| 9. Seismosaurus: (SIZE-mo-SORE-us) This was the longest dinosaur in the world and its bones were found south of Jemez Pueblo. It was related to the longnecks. (sauropods)   | 200 million years ago |
| 10. Allosaurus: (AL-o-SORE-us) This predator was the ancestor of Tyrannosaurus.  | 200 million years ago |
| 11. Tyrannosaurus rex: This was the largest carnivore and its bones were found in southern New Mexico.   | 135 million years ago |
| 12. First flowers: Colorful flowers and insect pollinators developed together. This is called co-evolution.  | 135 million years ago |
| 13. Dinosaurs went extinct: Scientists think that an asteroid crashed into the Gulf of Mexico causing dust to darken the sky, killing the plants and eventually all the dinosaurs and many other animals.  | 65 million years ago  |
| 14. First horse: These early mammals developed in North America and were the size of a fox.  | 50 million years ago  |
| 15. Camels: They lived in the valley west of the Sangre de Cristo Mountains with larger horses and giant bison.  | 25 million years ago  |
| 16. Lava emitted from a fissure near Pilar: the lava flowed down to Chamita, forming the cap rock of Mesa Prieta.  | 3.3 million years ago |
| 17. Woolly mammoths: These huge elephants stayed warm during the ice ages with their long hair and they grazed on grass.   | 1.6 million years ago |
| 18. Jemez volcano erupted: This created the Valles Caldera. It was 10 times larger than Mount St. Helens and sent volcanic ash as far as Kansas.   | 1.4 million years ago |
| 19. Rio Grande began to flow: This new river followed the Rio Grande Rift, creating the Española Valley.   | 440,000 years ago     |
| 20. Paleo-Indians: The first people to live in New Mexico were nomads who hunted large Ice Age mammals and gathered berries, seeds and roots.  | 13,000 years ago      |
| 21. Last Ice Age ended: Many of the megafauna went extinct in New Mexico, including the horse, the camel and the woolly mammoth.   | 10,000 years ago      |

Using the Earth History Timeline student information sheet and your math skills, figure out the answers to these questions:

1. How long did it take for life to begin on Earth? \_\_\_\_\_

2. How long did the age of dinosaurs last? \_\_\_\_\_

3. How long ago did amphibians move onto land? \_\_\_\_\_

4. Did people live during the time of dinosaurs? Using the timeline, how do you know?

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\_\_\_\_\_  
\_\_\_\_\_

5. Did people live during the time of the ice age? How do you know?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Did Coelophysis eat flowers? How do you know?

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\_\_\_\_\_  
\_\_\_\_\_

7. How long ago did the dinosaurs go extinct? \_\_\_\_\_

8. Did the first amphibians eat insects? Why or why not?

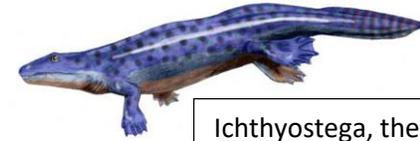
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9. What large predator hunted Seismosaurus? How do you know?

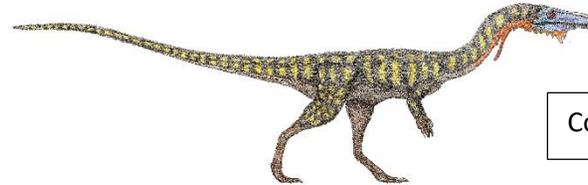
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10. Was Dimetrodon a dinosaur? How do you know?

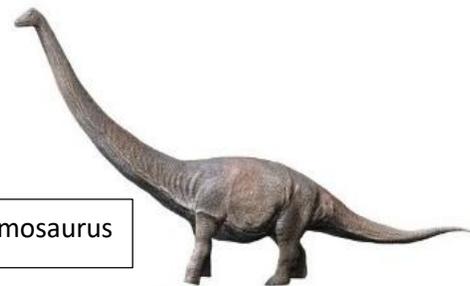
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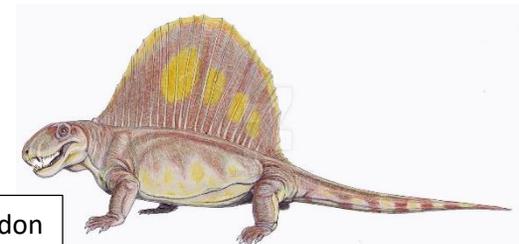
Ichthyostega, the first amphibian



Coelophysis



Seismosaurus



Dimetrodon