**Geological Time Scale Poster**

You have been appointed to the scientific acquisition team for a major project looking at the layers of the Earth. As part of your job, you have been asked to research and develop a pictorial representation of geological time (about 4.6 billion years) on a time scale that would be more easily understood by the public, such as 24 hours, a calendar month or year, or 1-meter. You have also been asked to include major events in Earth’s history in your poster. This may include changes in the environment, climate, topography, or organisms that have occurred. Be sure to indicate each of the following on your timeline:

**ERA** **PERIOD** **MYA** (ended) **OCCURRENCES**

Cenozoic Quaternary Current Day - Humans are the dominant form; Ice ages

Tertiary 2.5 - “Age Of Mammals”; Climate cools

Mesozoic Cretaceous 65 - Dinosaurs die out; First flowering plants

Jurassic 135 - Largest dinosaurs thrive; First birds;

Rocky Mountains rise

Triassic 195 - “Age Of Reptiles”, First dinosaurs &

mammals; Modern fishes develop

Paleozoic Permian 245 - Pangaea forms; Largest known mass

extinction; First cone-bearing plants

Carboniferous 285 - Coal-forming forests form; First reptiles,

winged insects, & mosses

Devonian 345 - First amphibians, sharks, & insects; First

forests in swampy areas

Silurian 400 - “Age Of Fishes”; First land plants;

Coral reefs form

Ordovician 430 - First jawless fishes appear

Cambrian 500 - “Age Of Invertebrates”; Trilobites,

brachiopods, & crinoids dominate the seas

Precambrian 580 - First life forms in the sea; First bacteria &

primitive forms of eukaryotes

4,600 - Earth’s Formation

This project is worth 100 points and is due in two weeks. It must include the information indicated above (time eras and periods), mya, and occurrences), color-coded eras and periods, and include a colored picture for each time period. The following measurements can be used to get the correct dimensions. Other illustration formats may be used if approved by the teacher.

**Dimensions**

**24-Hour Clock 1 Month 1 Year 1-Meter**

**2.5 mya** 11:59 pm 28 days, 12 hours December 31st 99.05 cm

**65 mya** 11:41 pm 3 days, 14 hours December 26th 98.7 cm

**135 mya** 11:21 pm 3 days, 3 hours December 21st 97.3 cm

**195 mya** 11:03 pm 2 days, 16 hours December 17th 96.1 cm

**245 mya** 10:49 pm 2 days, 12 hours December 13th 95.9 cm

**285 mya** 10:38 pm 2 days, 3 hours December 10th 94.3 cm

**345 mya** 10:20 pm 1 day, 18 hours December 6th 93.1 cm

**400 mya** 10:05 pm 1 day, 12 hours December 1st 92.0 cm

**430 mya** 9:56 pm 1 day, 1 hour November 30th 91.4 cm

**500 mya** 9:36 pm 20 hours November 24th 90.0 cm

**580 mya** 9:13 pm 10 hours November 19th 88.4 cm

**4,600 mya** 1:55 am 22 minutes January 29th 8.0 cm

**5,000 mya** 12:00 am 0 minutes January 1st 1.0 meter