

# Geological Timeline Activity

## Procedure to make a Geological Timeline of Major Events

- Within the **side bar**:
  - Write a **full heading** – Geological Timeline, Name, date, and period
  - Underneath the heading, make a **scale**.
    - 1 meter = 1 billion years
    - 1 centimeter = 10 million years
    - 1 millimeter = 1 million years
- Measurement for the timeline will begin with Today (the top row is the present and future). The past will increase as we go across the row to the right and down each row. Each row is 23 centimeters across (represents 230 million years).
- Using the Major Events listed in **Table 1**, **measure and write the major events** on your geologic timeline.
- For each event draw a small picture that shows the event.
- Color your timeline according to the eras. (See the table).

Table 1 Major Events in Geological Time

Time	Scale	Major Event	
Today	0 cm	The Present	<b>CENOZOIC ERA</b> (color in blue)
~100,000 ya	0.1 mm	Homo Sapiens (Modern Form of Human Species)	
~ 22 mya	2.2 cm	Grasses	
~ 33 mya	3.3 cm	First Apes	
~50 mya	5 cm	Eohippus (First Known Horse)	
65 mya	6.5 cm	<b>CENOZOIC ERA</b>	<b>MESOZOIC ERA</b> (color in red)
~ 65 mya	6.5 cm	Dinosaurs Extinction	
~140 mya	14 cm	First Flowering Plants	
~200 mya	20 cm	Earthworms	
~220 mya	22 cm	First Mammals	
~240 mya	24 cm	Start of the age of the dinosaurs	<b>PALEOZOIC ERA</b> (color in green)
248 mya	24.8 cm	<b>MESOZOIC ERA</b>	
~330 mya	33 cm	Winged Insects	
~380 mya	38 cm	First Insects	
~390 mya	39 cm	First Sharks	
~395 mya	39.5 cm	Amphibians	<b>PRECAMBRIAN TIME</b> (color in orange)
~400 mya	40 cm	Ferns	
~440 mya	44 cm	First Land Plants	
~440 mya	44 cm	First Jawed Fish	
540 mya	54 cm	<b>PALEOZOIC ERA</b>	
~550 mya	55 cm	Jellyfish	<b>PRECAMBRIAN TIME</b> (color in orange)
~1.8 bya	108 cm	First Eukaryotes	
~2.4 bya	240 cm	Significant rise in oxygen, to ~2% level	
~3.5 bya	350 cm	Prokaryotes (bacteria)	
~4.6 bya	460 cm	Formation of Earth and Moon	
4.6 bya	460 cm	<b>PRECAMBRIAN TIME</b>	