Student Roles in Geologic Timeline

* 4.5 BYA – Earth begins to cool and form
* hot volcanic rocks
* 3.8 BYA – Oldest Known Rocks!
* 3.8 – 3.5 BYA – LIFE! 1st Living Thing
* 3.5 BYA Oldest Known Fossil
* 3.5 – 2BYA –
  + Algae,
  + Bacteria,
  + More Algae,
  + More Bacteria,
  + Ugly Algae,
  + Beautiful Bacteria!!!!
* 2.7 BYA – You’ve got a Nucleus!!!! 1st Eukaryote
* 2 BYA – Oxygen on the rise, passed the 2% level
* 1 BYA – The Beginning of Sex: meiosis
* 600 MYA – Appearance of Multicellular Organisms
  + Algae
  + Wormy Animals
* 545 MYA – Invertebrate Explosion
* 500 MYA – First Fishes
* 360 MYA – First Amphibians
* 300 MYA – First Reptiles
* 250 MYA – Greatest Mass Extinction on Earth! More than 90% species
* 250 – 65 MYA – Age of the Dinosaurs
* 250 MYA- 1st mammal like reptiles
* 220 MYA – 1st Mammals
* 210 MYA – 1st Birds
* 130 MYA – 1st Flowering Plants
* 65 MYA – Last Dinosaur goes Extinct: Explosion of Mammal Diversity
* 50 MYA – 1st Whales
* 30 MYA – Earliest Apes
* 6 MYA – Earliest Hominids
* 1 MYA – the Last Ice Age

**Assignment: 2 class periods**

1. One of these events that you chose will be your “Major Event” on the geologic time scale that you will be representing. You are to grab a construction sheet of paper and draw a representation of your event and label the time that it occurred.

2. In order to draw your event you must do a little research about what your event might have looked like including its surroundings at the time. Use the links on my webpage to help you in your research. Research will include:

* In what era did your event occur?
* What does the era look like?
* What kinds of animals were living at the time?
* How is the Earth evolving or changing? Physical features such as oceans, mountains, continents, etc.
* On the back of your drawing you must include 5 facts that you learned about your event or the era that your event took place in.

Once finished with your drawing and research you will need to take that drawing to the timeline around the room and place it where you think it should go according to its age.

3. Complete the Time Map given to you once everyone else has their “event” on the timeline.

4. Label the Eras on your time map and color code each era the following:

* + Precambrian: red
  + Paleozoic: blue
  + Mesozoic: green
  + Cenezoic: purple