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