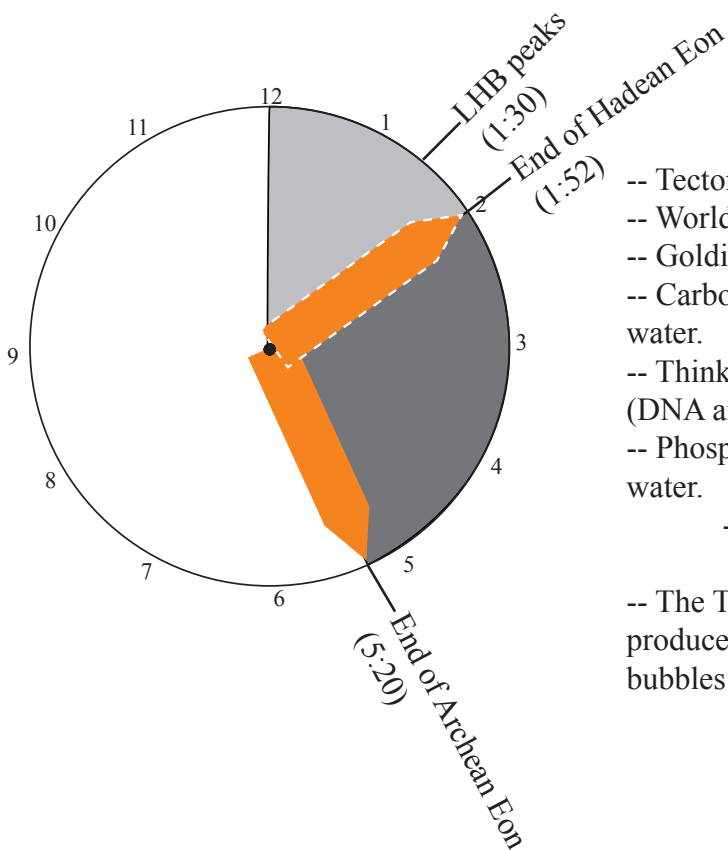
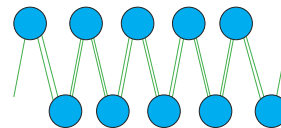


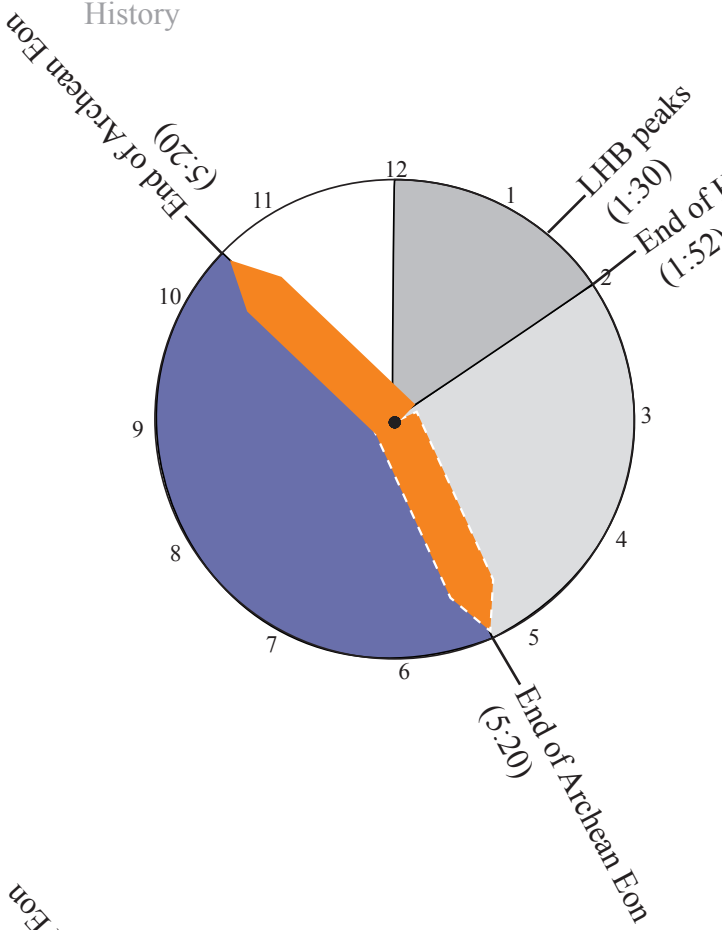
- LHB (Late Heavy Bombardment): Causes huge craters in the Moon and on Earth.
- Iron Sink: Formation of crust and continents we live on today. (See chart B3A: The Cosmic Dance)
- Creation of our atmosphere, eruption of gases from inside earth's crust (See chart B3A: The Cosmic Dance)
- **Hades Eon** - *means the unseen*. Lava flowing out the unseen world. Very mysterious and we are still learning about it. (See chart B4A: The Time of the Volcanoes)
- Beginning of the Water Cycle (See chart B5A: The Sun's Beautiful Daughter)



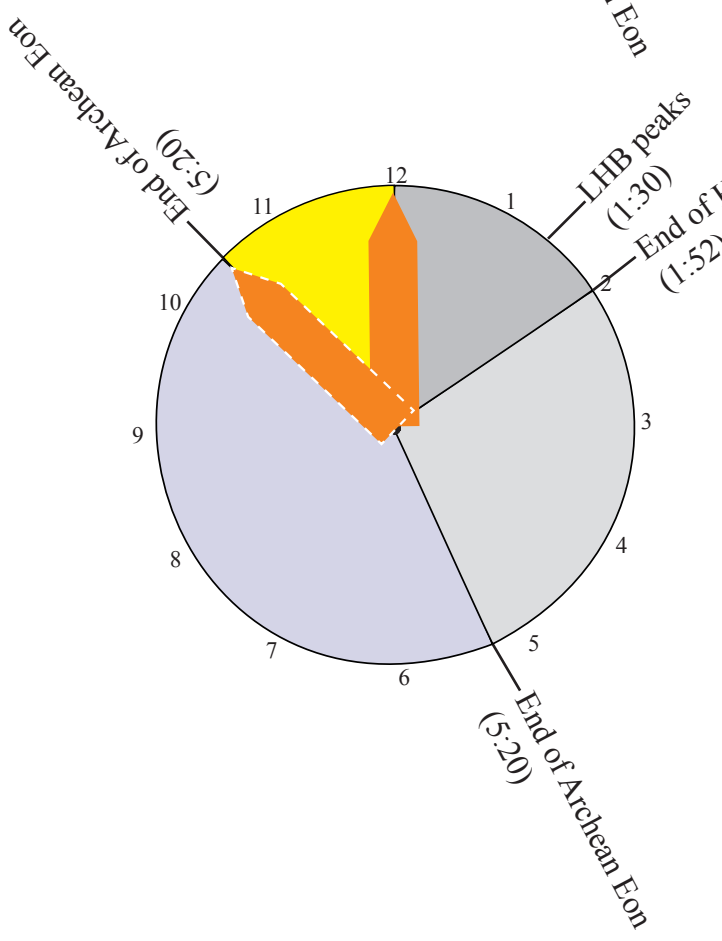
- Tectonic plates created. Float on top of the lava.
- World began to cool down with particles in the water.
- Goldilock planet - "Just right for life"
- Carbon, nitrogen, phosphorus present combining into water.
- Thinking acids b.c they can make copies of themselves (DNA and RNA)
- Phospholipids has head that likes water and legs that hate water.
 - arrangement is known as bubbles. The heads get to be in water and the legs get to be in air.
- The Thinking acids got inside the legs and began to reproduce. Worked together because the thinking acids taught bubbles to reproduce.



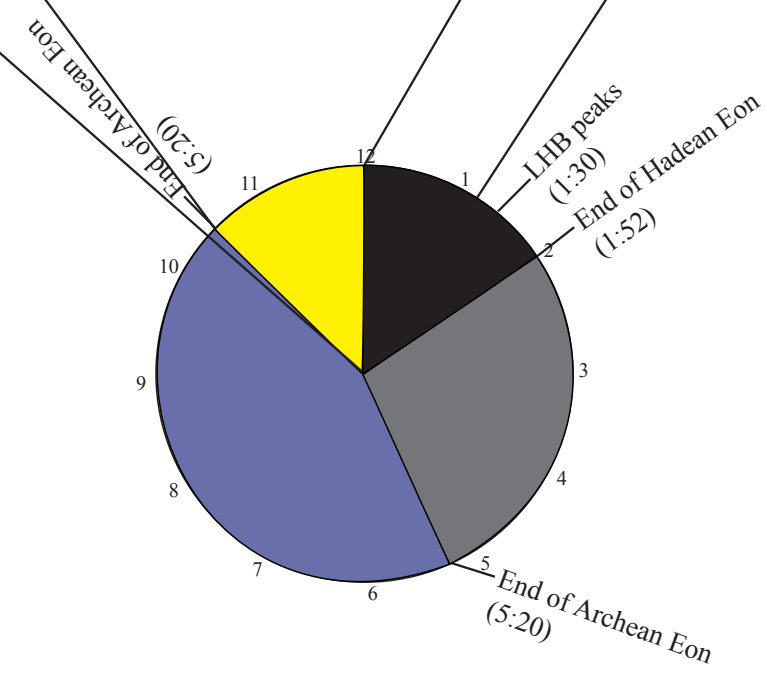
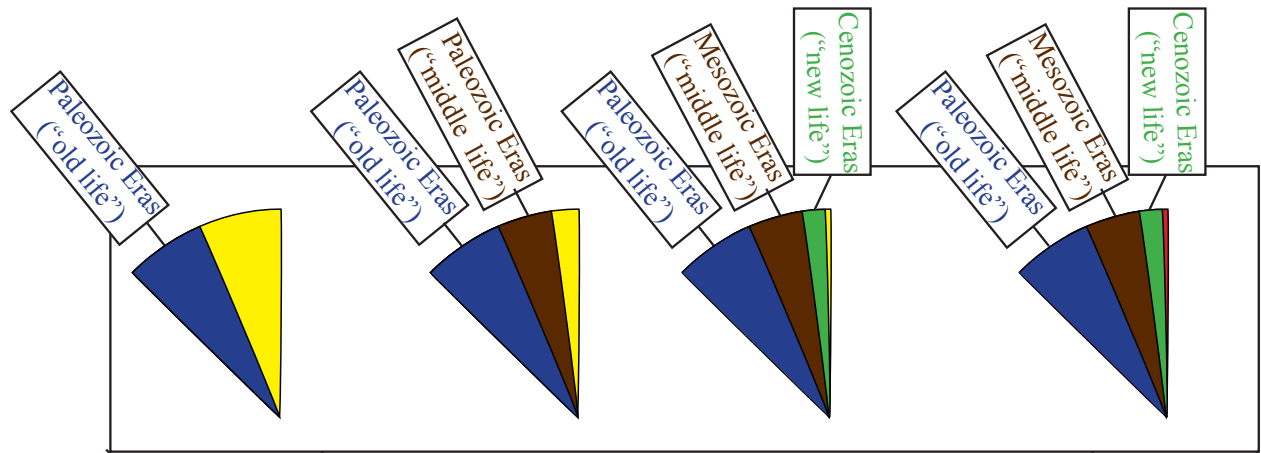
- **Archean Eon** - *Old ones*. As gray because the merky substances inside the oceans.



- Continental shelves created.
- Thinkers are procarriots (Bacteria).
- Cyanobacteria (blue-green algae) learned how to break down sun to make food. Biproduct was Oxygen.
- New cell learned how to create energy from Oxygen (put oxygen into check)
- Cells ingest or eat each other.
- Larger cell decided to eat a cyanobacteria and the larger cell could not digest the cyanobacteria. Became co-dependent on each other.
 - When reproduced they reproduced together, creating chlorophorm.
- Mitochondria was also formed.
- **Proterozoic Eon** - Means *early life*. Colored blue because so much of the events occurred in the water.



- Appearance of all kinds of life.
- Organisms build bodies of many cells.
- Each cell has differentiated jobs.
- Includes 3 separate stages:
 1. **Paleozoic Era** - means "*old life*" - multicellular life are in the ocean. New form of life created. By the end many animals lived all over Earth. Dark blue due to exciting new forms of life still in the water.
 2. **Mesozoic Era** - means "*middle life*" - called age of reptiles. Dinosaurs and other reptiles dominated the land. Life began to move. Color this era brown because the land was barren and the color of the reptiles.
 3. **Cenozoic Era** - means "*new life*" - dominance passed to the mammals and birds, warm-blooded. Color this era green due to the first grasses appearing on earth.



- Hadean Eon (4.500.000.000 YA - 3.800.000.000 YA)
- Archean Eon (3.800.000.000 YA - 2.500.000.000 YA)
- Proterozoic Eon (2.500.000.000 YA - 540.000.000 YA)
- Phanerozoic Eon (540.000.000 YA - present)

