**APES AGENDA: September 1, Thursday: B Day**

* **Be sure I have all groups’ timelines – WITH NAMES**
* **Turn in your HW –** critique, question writing, concerns
* **Turn in your science safety contract!** 
  + **Be sure you and a parent/guardian signed and wrote the date on it**

**WARM-UPS:**

<https://www.youtube.com/watch?v=aRG4ySdi_aE>

<https://www.youtube.com/watch?v=TQmz6Rbpnu0>

Austin’s Butterfly: <https://vimeo.com/38247060>

***I WILL ASSIGN BOOKS AS YOU COMPLETE THE WARM-UPS***

1. Using your time-line activity and geologic Time scale (last class), differentiate among the following:
   1. Eon
   2. Era
   3. Period
   4. Epoch
2. What criteria is used to differentiate among the eras, periods, and epochs?
3. Which era lasted the longest? WHY?

**OBJECTIVES:** **Earth Systems and Resources**

1. **Assigning Cell Phone Parking Spaces**
2. ***HOW OLD IS THE EARTH?***
   1. ***Your Geologic Time Scale***
      1. *Compare the simple geologic time scale with the current version*
         1. *Discussion of your observations!*
         2. *Discussion of the ANTHROPOCENE*

* *strengths and weaknesses for the new epoch*

1. **NOTES: Informal**
   1. Earth’s 4 Spheres
   2. Biotic vs. Abiotic components of Earth
2. **NOTES: Formal**:
   * 1. Nebular Hypothesis, differentiation of Earth, beginnings of life
     2. <http://home.snc.edu/takamasatakahashi/login/AstroSp10/Animations/Active_Figures/nebular/>
     3. POWERPOINT

***TAKE-AWAY:*** Do this with your group

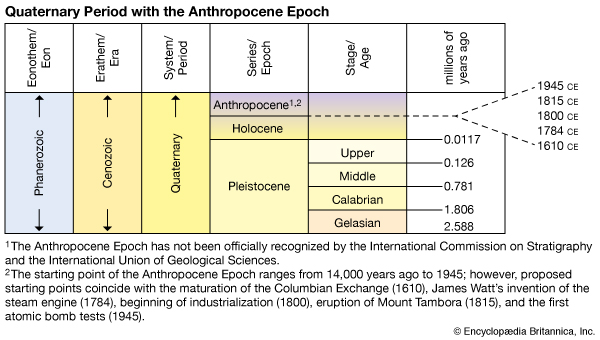
1. Comment on what you gained from constructing your time-line
2. Identify Earth’s 4 Spheres
   1. Describe the interactions among the spheres – use concrete examples to illustrate your interactions:
      1. EX. Interaction between the geosphere and hydrosphere = a volcanic eruption on the sea floor

**HOMEWORK:**

1. READ THE LAB – EVOLUTION of Earth’s atmospheres, oceans, and sediments

2. BE SURE I HAVE YOUR LAB SAFETY CONTRACT!

3. Begin the first readings listed in your course outline

**The**

POSTED ON 17 MAY 2010 IN [BUSINESS & INNOVATION](http://e360.yale.edu/content/topic.msp?id=55) [CLIMATE](http://e360.yale.edu/content/topic.msp?id=5) [ENERGY](http://e360.yale.edu/content/topic.msp?id=15) [SCIENCE & TECHNOLOGY](http://e360.yale.edu/content/topic.msp?id=65) [SCIENCE & TECHNOLOGY](http://e360.yale.edu/content/topic.msp?id=65) [SUSTAINABILITY](http://e360.yale.edu/content/topic.msp?id=246) [NORTH AMERICA](http://e360.yale.edu/content/region.msp?id=5)

