

Due Monday, September 9th

These projects should be completed before the first day of school (unless you transfer into the class after the first day, then a schedule for completing will be worked out at that time). You will submit all of your work into google classroom digitally in class once school begins. Make sure to take pictures of your handwritten work. You can always email me klatchford@philasd.org if you have a question.

Resources

1. [AP textbook](#)
2. <http://www.learner.org/courses/envsci/index.html>
3. <http://www.runet.edu/~wkovarik/envhist/>
4. <http://www.worldwatch.org/brain/features/timeline/>
5. <http://www.worldometers.info/world-population/>
6. <http://www.environmentalhistory.org/>
7. http://en.wikipedia.org/wiki/Timeline_of_environmental_history

I. Textbook (* you will need to use the first resource, AP textbook, above to read the first two chapters and complete the reading guides linked below.)

1. [Ch 1 Reading Guide](#)
2. [Ch 2 Reading Guide](#)

II. Environmental History:

1. Create a timeline of the history of Environmental Science, using **9 events** from the following list. The final product may be any digital format (Powerpoint, Prezi, etc). You will present your selections to the class the first week - be ready!
2. For **the 9** events you chose, research why that event is significant in the history of environmental science and write a description IN YOUR OWN WORDS. **Any plagiarism will result in a zero for the assignment.**
3. **ADD** one significant event (not on the list) that has happened in the last 5 years, and give a brief description of it. (You will have a total of 10 significant events in Environmental history.)
4. Include pictures or graphics to decorate your timeline AND add to its educational value (don't just make it pretty, let the images add value to the content... no points for the digital equivalent of glitter).

* ~10,000 years ago: Agricultural (Neolithic) revolution	* 1963: Wilderness Act*
* ~1800: Industrial revolution	* 1968: Wild and Scenic Rivers Act*
* 1854: Walden by Henry David Thoreau*	* 1969: Cuyahoga River in Cleveland, Ohio, caught fire*
* 1862: Homestead Act*	* 1969: NEPA (National Environmental Policy Act)*
* 1872: Yellowstone National Park founded	* 1970: First Earth Day
* 1875: American Forestry Association founded*	* 1970: Environmental Protection Agency established
* 1890: Yosemite plus Sequoia National Park founded	* Clear Air Act (*63, *65, *70, *77, *90)*
* 1838: John Muir (why is this person important?)*	* 1973: Endangered Species Act

* 1891: General Revision Act*	* FIFRA (Federal Insecticide, Fungicide, and Rodenticide Control Act, *72, *75, *78, *88)*
* 1892: Sierra Club founded*	* 1973: OPEC oil embargo*
* 1900: Lacey Act*	* 1974: Roland and Molina (UCI) announce that CFC*s are depleting the ozone layer
* 1901-09: Golden Age of Conservation (Theodore Roosevelt)	* 1976: RCRA (Resource Conservation and Recovery Act)*
* 1903: First national wildlife refuge established	* 1977: Clean Water Act*
* 1905: U.S. forest Service founded*	* 1977: Surface Mining Control and Reclamation Act*
* 1905: Gifford Pinchot* (why is this person important?)	* 1978: Love Canal, NY (toxic waste leaks into residential houses)*
* 1905: Aldo Leopold* (why is this person important?)	* 1979: 3 Mile Island Nuclear accident*
* 1905: Audubon Society founded*	* 1980: Alaskan Lands Act*
* 1906: Antiquities Act*	* 1984: Bhopal, Indian (chemical toxic cloud kills 2,000)*
* 1907-Appropriation/Agriculture bill passed by Congress	* 1986: Chernobyl *
* 1912: U.S. National Park service founded	* CERCLA (Super-Fund (*80, *86, 90)*
* 1933: Civilian Conservation Corps founded*	* 1987: Montreal Protocol*
* 1930s: Dust Bowl	* 1989: Exxon Valdez*
* 1933: Soil Conservation Service founded*	* 1992: Energy Policy Act of 1992*
* 1934: Taylor Grazing Act*	* 1994: Desert Protection Act*
* 1934: Migratory Bird Hunting Stamp Act*	* 1999: World population hits 6 billion.
* 1940: Fish plus Wildlife Service founded*	* 1997-2005: Kyoto Protocol
* 1943-1970: Green Revolution	* 2011: World population hits 7 billion
* 1962: Silent Spring published by Rachel Carson*	

III. Got Math??

Math is the language of science. You will need to do calculations, graphs, and data analysis in this course. This warm-up is both a tutorial and a set of practice problems to make sure you have the basic skills mastered. Failure to complete this portion of the summer assignment indicates that you do not wish to be enrolled in this course, and will likely result in a call home very quickly. If you get stuck or need help, give it your best shot, and make sure to show all work!!! You can always drop me an [email](#).

[APES Summer Math Prep](#) - There are a total of 60 questions in this packet, please turn in your **hand-written work (all steps shown)** on the first day of class.