

Summer Assignments (due first day of class in August 2018)

#1 Law Review

Directions: Find information for each of the laws and/or treaties listed below and type or write onto a note card or into a chart. (Please leave room as we may be adding more information as the year progresses.)

Email me if (parnold@bannerchristian.org) you want me to email this document to you. You will be quizzed on these laws throughout the school year, so coming into the course with these already done will be VERY helpful. Do your own research. Include the following information:

- a) Draft year and whether it is international or national
- b) Description of function; environmental issues affected
- c) Agency or group responsible for regulation and enforcement (i.e., United Nations, Department of Interior, EPA, etc.)

Clean Air Act	Food, Drug, and Cosmetics Acts	Occupational Safety and Health Act
Clean Water Acts	Hardrock Mining and Reclamation	Ocean Dumping Ban Act
Comprehensive Environmental Response, Compensation Liability Act	Kyoto Protocol	Oil Pollution Act
Consumer Product Safety Act	Law of the Sea Convention	Oil Spill Prevention and Liability Act
Convention on International Trade in Endangered Species	Marine Mammal Protection Act	Pollution Prevention Act
Emergency Planning & Community Right-To-Know Act	Marine Plastic Pollution Research and Control Act	Resource Conservation and Recovery Act
Endangered Species Act	Migratory Bird Hunting Stamp Act	Safe Drinking Water Act
Energy Policy Act	Montreal Protocol	Soil and Water Conservation Act
Federal Food, Drug, and Cosmetic Act	National Energy Act	Solid Waste Disposal Act
Federal Insecticide, Fungicide and Rodenticide Act	National Environmental Policy Act	Surface Mining Control and Reclamation Act
Federal Water Pollution Control Act	National Park Act	Toxic Substances Control Act
Fish and Wildlife Conservation Act	National Wildlife Refuge System Act	Wild and Scenic Rivers Act
Food Quality Protection Act	Nuclear Waste Policy Act	Wilderness Act

Just a thought: you may want to set it up in a spread sheet like this in Google Docs (spreadsheet), in Microsoft Excel, or in Open Office.

Name	Draft Year	Amendment Years	INT or US?	Description	Issue affected	Agency
Clean Air Act (CAA)	1970	1977, 1990	US	Regulates air emissions from all stationary and mobile sources to protect public health and public welfare and to regulate emissions of hazardous air pollutants	Air pollution; human health	EPA
Clean Water Act (CWA)						

#2 Watch Video

Watch “Home” by Yann Arthus-Bertrand

Watch the 90-minute video on YouTube and answer the following questions as you watch it. (Note: You will see and hear things that we as creationists will not agree with.)

The link to the video is here: <https://www.youtube.com/watch?v=jqxENMKaeCU>
or here: <https://www.youtube.com/watch?v=jqxENMKaeCU&feature=c4-videos-u>

1. Describe the conditions on early earth according to the video.
2. What happened to the carbon that poisoned the atmosphere?
3. How did the agricultural revolution change the earth?
4. How has earth changed in the last 60 years since the use of oil has become more widespread?
5. What is most of the grain in the US used for?
6. What led to the dramatic decline in the biodiversity of agricultural crop species?
7. How many kilos of water does it take to produce 1 kilo of beef?
8. How have cars shaped the way housing is laid out in the US and other developed countries?
9. How much has the volume of international trade increased since 1950?
10. What are your thoughts on how the video portrays Dubai? Is it self-sustainable?
11. Rainforests are cut down to make farmland for which products/crops?
12. What makes the growth of Lagos different from how most other cities grow?
13. Where does the water from Greenland’s melting ice sheet go?
14. Why are the glaciers of mountains so important for the people in the lowlands?
15. What hope does the video offer at the end?

#3 Make Your APES Binder & Current Events Section

Choose a two-inch binder (with tabs) specifically for APES. Some universities want to see your binder before giving you college credit for this class. One section is for current events.

CURRENT EVENTS: ENVIRONMENTAL ARTICLES

Find **THREE** articles that have been published this summer (from June through August). Each article must be about a different environmental issue. All articles must pertain to Environmental Science and have significant science content. Do not include advertisements, pure opinion pieces, or light reviews of other articles. The articles should be long enough (more than 4 paragraphs) for you to write a substantial summary and well thought-out response. Try to find a variety of articles at the state, national, and global level (i.e., not all articles should be about the Chesapeake Bay).

1. The date and source of the article must be included on the page with the article and in your summary.
2. If the article is too large to glue on one page, cut and paste as needed and put it on more than one page. This may look better if pasted on unlined paper.
3. Articles should be neatly cut out and taped, stapled, or glued onto one or more pages. Your writing should be on a separate page in front of the article.

Examples of some environmental issues: chemical contamination, oil spills, pesticides, air pollution, climate change, rainforest deforestation, overpopulation, desertification, coral reef destruction, urban sprawl, introduction of non-native/invasive species, endangered species. Include each article printed from the internet, photocopied from a journal, or cut from a newspaper or magazine.

The sources may be scientific publications, popular magazines, newspapers or the like. Try the NY Times (especially Tuesdays), National Geographic, Discover Magazine, as well as the more scholarly Scientific American, Science, Nature, etc. You may use an online newspaper or journal, as well as “.gov, .edu, or .org” sites.

Cite your sources properly (MLA) on a reference page at the end of the current events section of your binder. Use <http://www.easybib.com/> if you need help with citing.

Obviously, plagiarism is unacceptable. Use your original thoughts. This assignment should help you prepare for the writing portion of your AP exam.

For each article answer the following questions in three paragraphs. Place this in your binder in front of the article that you've pasted on a separate page. List the title, date, and source of the article at the top of the page. You may either type or handwrite your summary and analysis.

Paragraph 1) Summarize the content in the article ***in your own words***. (“cutting and pasting” from the article is not writing in your own words!) Focus on the questions below.

- a. What is the problem? When did it begin?
- b. Who are the responsible parties, if they are known?
- c. How severe is the environmental impact?

Paragraph 2) Analyze the article

- a. Points of view: Does the article give two different points of view? If yes, what are they?
- b. Bias: The order in which information is presented and the amount of text devoted to influencing a reader's opinion is called bias. Is this article biased, and if so, which way is the article biased (slanted)? In your opinion does the author give a positive, negative or neutral view of the environmental science topic? Explain.
- c. Controversy: Is there any controversy surrounding this article? If so, briefly state it.

Paragraph 3) Your reflection and/or reactions on/to the article

- a. What are your thoughts on the issue?
- b. Does it support or refute other information you've heard or read? How so/in what way?
- c. How does this topic affect you, or how does it relate to your life?

#4 Textbook Assignment

Order your book early in the summer so you can finish the assignment below. The ISBN is ISBN-13: 978-1-4641-0868-6, and the title is *Environmental Science for AP**, Second Edition; the authors are Friedland/Relyea. You can order it for \$135.14 on the following website, <http://www.macmillanhighered.com/Catalog/product/friedlandrelyeaenvironmentalscienceforap-friedland> or call the publisher's warehouse at 540-672-7744, but you can often find a used textbook for less if you search other websites or ask a Banner student who took the class two years ago. Just be sure you have the correct title and ISBN and that it's the second edition printed in 2015. Butterflies are on the front cover. You do need to buy the textbook and not rent or borrow it because you'll be highlighting and writing in the textbook and then using it to study for the AP exam.

Read "Getting the Most from This Book" on pages xvii–xxiv, and the introduction, which includes chapter 1, Studying the State of Our Earth, chapter 2, Environmental Systems, and Science Applied, all on pages 1–65.

Answer all of the questions at the end of each module and at the end of chapters 1 and 2 and on page 65. Make a section in your APES binder for chapter questions, and place these pages there. You can circle multiple choice questions in your book with a pencil, but place the free-response answers in your binder. (Read chapter 3 if you wish to work ahead.)