



**Ocean City High School  
AP Environmental Science  
Summer Assignment 2021-22**

<b>AP Environmental Science</b> <b>mpomatto@ocsdnj.org</b>	<b>Mr. Pomatto</b>
<b>Meets AP College Board approval</b> <b>Topic: Environmental Science History</b>	<b>Due Date: Will Be Due Via Remind App or handed in directly to me within the first 3 (student days) of school.</b>
<b>Purpose: Building AP Environmental Science Exam Review Resources</b>	
<b>Text/Novel(s) &amp; Brief Description; Environmental History APES Exam Notecard/Google Doc. Creation</b>	
<b>Approximate Time on Task: 8 hours</b>	
<b>Suggested Timeline: Start immediately and finalize mid August</b>	
<b>How It Will Be Assessed : Assignment is worth 50 pts</b>	

**AP Environmental Science Summer Assignment 2021-22**

Course Overview

This course is designed to cover a variety of topics within the sciences. The goal is to provide you with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate risk factors of these problems, and to examine alternative solutions for resolving or preventing them. Emphasis in this class is placed on science as a process, energy conversions underlying all ecological processes, the Earth as an interconnected system, how humans alter the environment, environmental problems and their social context and developing sustainable practices. This course adheres to the objectives instituted by the College Board for all AP Environmental Science.

This is a laboratory course in which you are expected to follow scientific methodologies, collect data and make accurate hypotheses.

The objectives of this course are that each student shall:

- Demonstrate skills using various types of instrumentation and scientific methodologies
- Learn how to read and critique scientific research articles in the field of Environmental Science
- Practice using data collected to solve scientific problems.
- Apply their knowledge and critical thinking to current social concerns.
- Actively participate in field studies

Please understand that this is a college level course and because of the depth and breadth of the coursework, and limited time before the AP Exams in May, **it will progress at a very challenging rate.** A great amount of your time will be required outside of the classroom to fully comprehend topics presented. Reading and outlining on your own will be fundamental tools that will keep you in tune with concepts throughout the course.

**Summer Assignment:** “Electronically Generated” Note Cards or a Typed Google Document, that focus on “1. People in Environmental Science History 2. “Well-Known Case Studies in Environmental Science” and 3. “Environmental Laws, Acts, and International Treaties” Save this assignment somewhere safe as it will be a helpful component of preparing for the APES Exam.

**READ ALL DIRECTIONS CAREFULLY AND REPEATEDLY!!!!**

**DUE: September 2021 on the 2nd or 3rd of School Via “Remind” App. after the App. is set up for your class..Or it may be handed in directly to me if you created hand written notecards.**

When you return to school, we will set up your class with the “Remind App.” You will then submit this assignment electronically as a link to a google document on the Remind App., or if you decided to do hand written notecards, the notecards are to be handed in, in class, when other students hand it in electronically on “Remind”. This will be done the within the first 3 days of school. Regardless of how you submit the assignment, please label the assignment with your name on the top of the first page, or if doing notecards, your name and period should be on the front of the first notecard.

**Late Penalty (10pts Deducted Each Day Late)**

**Assignment Value (50 pts)**

Use any on-line notecard generating site you are familiar with, hand written notecards, or just type up a “google document”.

Please number your notecards or google document 1-75 starting with “Rachel Carson” as #1.

*The purpose of this assignment is to gain familiarity with historical individuals, legislation, and global case studies in the realm of Environmental Science.*

If you have any questions...

Please feel free to email me: [mpomatto@ocsdnj.org](mailto:mpomatto@ocsdnj.org)

**Have A Great Summer!! I look forward to meeting all of you!!!!**

**Mr.Pomatto**

**See Assignment List On Next Pages...**

**Notecards will require internet research. Note card information should be brief but be sure to include the “essence” of the term/concept that you are trying to describe!!! Information that I consider to be too vague will lead to point deductions.**

### **People in Environmental Science...**

1. Rachel Carson
2. Paul Ehrlich
3. Garrett Hardin
4. Aldo Leopold
5. Wangari Maathai
6. Thomas Malthus
7. John Muir
8. Gifford Pinchot
9. Theodore Roosevelt
10. Sherwood Rowland and Mario Molina
11. E.O. Wilson
12. Jane Goodall
13. Dian Fossey
14. John Jay Audubon
15. Henry David Thoreau

### **Well-Known Case Studies in Environmental Science**

16. Aral Sea
17. Ogallala Aquifer
18. Minamata, Japan
19. Aswan High Dam, Egypt
20. Chesapeake Bay, Maryland/Virginia
21. Love Canal Housing Development, Niagra Falls, NY
22. Three-Mile-Island, Pennsylvania
23. Bhopal, India
24. Chernobyl, Ukraine
25. Valdez, Alaska
26. Yucca Mountain, Nevada
27. Three Gorges Dam, China
28. Clinch River, Tennessee
29. London Smog
30. Deep Water Horizon
31. Dust Bowl
32. Fukushima Power Plant
33. Great Pacific Garbage Patch
34. Honey Bee Collapse 2006-?
35. Keystone Pipeline
36. Dead Zone Gulf of Mexico
37. Colorado River Basin
38. Ganges River
39. Passenger Pigeon
40. Kudzu
41. Zebra Mussels

42. DDT
43. Silver Carp
44. Easter Island

## **Environmental Laws and International Treaties**

45. National Environmental Policy Act (NEPA)
46. Endangered Species Act
47. Convention on International Trade in Endangered Species (CITES)
48. Marine Mammal Protection Act
49. Wilderness Act
50. Wild and Scenic Rivers Act
51. Lacey Act
52. Federal Insecticide, Fungicide, Rodenticide Act
53. Persistent Organic Pollutants (POPs) Treaty
54. Surface Mining Control and Reclamation Act
55. Federal Mine Safety and Health Act
56. Energy Policy Act
57. Safe Drinking Water Act
58. Clean Water Act (CWA)
59. Water Quality Act
60. Soil and Water Conservation Act
61. Solid Waste Disposal Act
62. Ocean Dumping Ban Act
63. Clean Air Act (CAA)
64. Noise Control Act
65. Kyoto Protocol
66. Montreal Protocol
67. United Nations Framework Convention on Climate Change (UNFCCC)
68. COP 22
69. Resource Conservation and Recovery Act (RCRA)
70. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA Superfund)
71. Nuclear Waste Policy Act
72. Low-Level Radioactive Policy Act
73. Basel Convention
74. Occupational Safety and Health Act (OSHA)
75. Stockholm Declaration

See Grading Rubric On Next Page!

## AP Environmental Science Summer Assignment Rubric

1. Electronic Note Cards or hand written (20 pts)
2. Quality of Descriptions/Explanations (10 pts)
3. Notecards for all terms listed. (15 pts)
4. Assignment is properly labeled on the first note card with student's full name/period # if known (title) and APES (definition) (5pts)

Example...

Jim Brown P8

APES

\*\* 10pt deduction each day assignment is late.