

AP Chemistry Final Project 2011

The majority of the remaining time will be spent in preparation for this project. You and a partner will conduct a fun and informative research project on a chemistry-related topic of your choosing, and then make a 15 to 20-minute video presentation on this research. The topics are not limited to new areas of chemistry that we haven't covered, however the topic must involve some new ideas not already covered.

Your presentation will include:

- A brief dissertation of your topic with slides
- A laboratory experiment or a demonstration
- Additional audio/visual supports, properly cited at the end of the video.

A double-spaced research paper must also be submitted, no shorter than 4 pages in length but no longer than 12 pages. You must include pictures, diagrams, and/or charts within the body of the research paper to supplement your ideas, but these must not represent more than one page of text. Of course all information must be properly cited.

Since many areas of chemistry spill over into biology, it is acceptable that your topic may include biochemistry or physical chemistry concepts.

Some sample topics (there are many more on the back):

Acid rain	Hot-air ballooning	Electroplating
Forensic Chemistry	Chemistry of Fireworks	Kitchen Chemistry
Medical Chemistry	The Chemistry of photography	Chemistry of sea water
Chemistry of volcanoes	Meteorology	Chemistry of photocells

Please note: I will not allow for duplicate projects. If two pairs are interested in the same topic, they must agree on how they will divide the topic up before they will be allowed to proceed. For example, if two of you want to do Forensics, one of you might investigate laboratory chemical analysis while another might describe field chemistry (like the chemicals and/or used to test for blood, bleach, GSR, etc).

Since laptop collection last year will begin on June 9th, I am making the due date for the projects tentatively June 7th. I will show two videos per day during class starting on the 8th. Please plan ahead for presentations; if you are sick, out on field trips, etc you might not get an extension on turning in your laptop, and I still want your presentation. It will still be a major part of your 4th marking period and final exam grade(s).

1. Chemical Pollution
2. Chemicals on the Surface of the land
3. Chemistry of Acid Rain (Deposition)
4. Chemistry of Acids in the Environment
5. Chemistry of Air pollution
6. Chemistry of Alternative Energy Sources
7. Chemistry of Antacids
8. Chemistry of Antiperspirants
9. Chemistry of Aquariums with Fish
10. Chemistry of Aquariums with Plants
11. Chemistry of Automobile Emissions
12. Chemistry of Batteries
13. Chemistry of Beach Sand
14. Chemistry of Bioluminescence
15. Chemistry of Blood
16. Chemistry of Carbohydrates
17. Chemistry of Catalysts
18. Chemistry of Climate Change
19. Chemistry of Concrete
20. Chemistry of Cooking Food
21. Chemistry of Cosmetics (Make up)
22. Chemistry of Decaying Food
23. Chemistry of Deodorants
24. Chemistry of Distillation
25. Chemistry of DNA Fingerprinting
26. Chemistry of Drinking Water (Bottled or Faucet)
27. Chemistry of Enzymes
28. Chemistry of Fire Works
29. Chemistry of Food Additives
30. Chemistry of Foods
31. Chemistry of Forensic Science
32. Chemistry of Forest Fires
33. Chemistry of Fruit Juices
34. Chemistry of Hair Cleaning or Coloring or Curling
35. Chemistry of Hormones
36. Chemistry of Hydrothermal Vents
37. Chemistry of Igneous Rocks
38. Chemistry of Insect Ecology
39. Chemistry of Light Bulbs
40. Chemistry of Lipids (Fats)
41. Chemistry of Liquid Chromatography
42. Chemistry of Magma or Lava
43. Chemistry of Medicines
44. Chemistry of Metal Alloys
45. Chemistry of Metamorphic Rocks
46. Chemistry of Minerals
47. Chemistry of Mitosis or Meiosis
48. Chemistry of Molds
49. Chemistry of Mouth Wash
50. Chemistry of Muscle Fatigue
51. Chemistry of Nucleic Acids
52. Chemistry of Ocean Carbon Sequestration
53. Chemistry of Oil
54. Chemistry of Oxidation (Rusting)
55. Chemistry of Ozone
56. Chemistry of Pain Medicine
57. Chemistry of Pesticides or Herbicides
58. Chemistry of Petroleum
59. Chemistry of Photography
60. Chemistry of Photosynthesis
61. Chemistry of Plants
62. Chemistry of Plastics
63. Chemistry of Polymerase Chain Reaction
64. Chemistry of Pond/Lakes/Rivers
65. Chemistry of Proteins (Macromolecules)
66. Chemistry of Respiration or Breathing
67. Chemistry of Rocks
68. Chemistry of Salt H₂O Marsh Sediments
69. Chemistry of Sedimentary Rocks
70. Chemistry of Sewage Treatment
71. Chemistry of Smog
72. Chemistry of Soaps or Detergents
73. Chemistry of Soda or Spray Cans
74. Chemistry of Soil Carbon Sequestration
75. Chemistry of Soils
76. Chemistry of Storms
77. Chemistry of Substances Used to Measure Temperature
78. Chemistry of Sun Glasses
79. Chemistry of Sunscreens
80. Chemistry of Tans or Sunburn
81. Chemistry of Teas or Coffees
82. Chemistry of the Atmosphere
83. Chemistry of the Carbon Cycle
84. Chemistry of the Cell
85. Chemistry of the Greenhouse Effect
86. Chemistry of the Sun or Solar Wind
87. Chemistry of the Sun or Stars
88. Chemistry of Tobacco Smoke
89. Chemistry of Toothpaste
90. Chemistry of Vitamins
91. Chemistry of Volcanoes or Eruptions
92. Chemistry of Water or Air Filters
93. Chemistry of Weathering
94. Chemo metrics
95. Comparison of Fats & Oils in Plants & Animals
96. Effect of Sound on Fish Aquarium Chemistry
97. Electrochemistry
98. Electrolysis
99. Measuring the Energy Potential of Foods
100. Pressure and Deep Sea Diving