AP Chemistry Photo Scavenger Hunt

What it is: A collection of unique photos and an explanation of the term presented in some form (prezi, google presentation, scrapbook, photo album)

Due: first day of class

Scoring: You will earn 1 extra test point for every FIVE items. Maximum 10 bonus test points (50 images)

Earn Points by: "collecting (photographing items and writing a description for each one. "Collecting" means that you should find the item and photograph it. Your photos should be original. (Read more below.)

You can be creative: If you choose an item that is internal to an item, you could submit a photograph of the whole item or a close up of part of it, and provide an explanation of what is inside.

Original photos only: Do not use an image from any publication or the internet. You must have taken the photograph yourself. The best way to prove that is to place an item in all of your pictures that only you could have added. Perhaps something that you always carry; student ID, key chain, or a special pen. You will submit/show that item with your project on day 1.

Team work: You may work with other students, but each student must turn in his or her own work with unique set of terms. Working with other students means brainstorming, collaborating, discussing, and going on collecting trips together. It doesn't mean using the same items.

Chemistry Scavenger Hunt Terms: Below are the items you are to "collect" (photograph). An item can only be used once. <u>Humans are acceptable for one category only.</u> Remember, you must take all photos yourself; no internet photos!

- 1. Alloys
- 2. Colors of the halogens (Three only)
- 3. Density : have a total of 5 things (3 layers & 2 floating items,etc)
- 4. Metal vs. nonmetal characteristics (show at least 2 differences)
- 5. Kinds of salts (at least 3)
- 6. Polymers
- 7. Smells produced by different ringed hydrocarbons (at least 3)
- 8. Transition metal uses
- 9. Three Phases of water together (Clearly, only three)
- 10. Types of solutions

INDIVIDUAL ITEMS: 1 test point for every five items

1. Any element 2. a compound that you know how to write the formula for. 3. acid 4. Acid rain 5. alcohol 6. aldehvde 7. alexandrite 8. alkane 9. alkyne 10. alkyne 11.amine 12. amorphous solid 13. base 14. blast furnace 15. buffered solution 16. calcium carbonate 17. capsaicin 18. carbohydrate 19. catalyst 20. cathode ray tube 21. change in 22. concentration 23. change in pressure 24. change in temperature 25. closest packing 26. collision model 27. coagulation 28. colligative property 29. colloid 30. combustion (be safe) 31. corrosion of iron

32. crystalline solid 33. diatomic molecule 34. diffusion 35. dihydroxyacetone 36. dialysis 37. dry cell battery 38. effusion 39.electrode 40. electrolvte 41. emerald 42. entropy 43. enzyme 44. ethylene 45. free energy 46. freezing-point depression 47. galvanic cell 48. graphite 49. hydrazine 50. Henry's law 51. hydrogen bonding 52. hydrophilic 53. hydrophobic 54. ion exchange 55. isotonic 56. isomerism 57. Ionic solid 58. Isopentyl acetate 59. kairomones 60. ketone 61. kinetic energy 62. lead storage battery 63. magnetite

64. molar volume 65. mole of anything 66. molecular solid 67. network (atomic) 68. neutral 69. nitrous oxide 70. osmosis 71. piston 72. plant that changes in acidity 73. polyprotic acid 74. potentiometer 75. pressure 76. protein 77. pure element 78. redox reaction 79. rhizome 80. rubv 81. semiconductor 82. SI unit used in a store 83. silicate 84. silver plating 85. silver sulfide 86. slaked lime 87. sodium azide 88. soluble 89. solution 90. spontaneous process 91. state function 92. sublimation 93. surface tension 94. taconite ores 95. titanium dioxide

98. viscosity99. voltmeter

EVENTS/PLACES: You can use up to 5 events. These must be selfies of you and a short description of the event listed. Some of these will take more than one picture; however, it will count as one item. These are counted the same as individual items so you can do fewer than 5.

- 1. A laboratory- One sentence describing what you were most impressed by.
- 2. Beach Trash- Clean-up 5 pieces of plastic from the beach, include them in your picture.
- 3. Cook something. Describe the chemistry involved.
- 4. Read a science book- Write 3 sentences about the importance of the book.
- 5. Go to a water park- List 5 reasons why water is so important to life.
- 6. Test a pool or spa. Show the chemistry.
- 7. Volunteer at a science park or camp-List 5 science related activities that you helped with.
- 8. Visit a science museum- Take pictures of 3 exhibits and explain why they captured your interest.

9. Your choice- Chemistry related activity- Did you do something this summer related to chemistry? Take a picture and give a brief explanation of what you did