

Chemistry Scavenger Hunt

Objective: To familiarize you with where chemistry information can be found and to begin learning some chemistry terms.

Rules:

1. All items must be labeled with a description of its contents and the number of the item that it represents from the list. All solid substances should be put in a plastic bag or plastic wrap. All liquids should be in plastic or glass containers with tight sealing lids. Put packaged items in a box with your name on it. **The same item may not be used more than once.**
2. Each item correctly collected is worth 2 points for a possible total of 50 points. The assignment is worth 40 points, so there is the possibility of getting 10 extra credit points!!
3. You may ask ANYONE for help on this EXCEPT Dr. Katz, other GH chemistry students, or other science department members at GH.
4. Do not share answers with your classmates or you will both be penalized!!

Safety Note: NO FLAMMABLE OR EXPLOSIVE ITEMS SUCH AS GASOLINE, MATCHES, OR PAINT THINNER ARE PERMITTED!!

List:

1. A product demonstrating an oxidation-reduction (redox) reaction.
2. Acetic acid
3. Sodium bicarbonate
4. A polymer of vinyl chloride
5. An acid/base indicator
6. Acetylsalicylic acid
7. SiO₂
8. An electrochemical cell
9. An emulsion (not just a mixture!!)
10. Something that lowers the freezing point of water
11. An alloy
12. A substance with a pH greater than 7.0
13. A substance with a density less than 1.0 grams/mL
14. Something hydrophobic
15. A substance with a solubility of more than 700 grams/Liter
16. A homogeneous substance (not homogenized)
17. A volatile liquid (see safety note)
18. A product containing an element with 30 protons
19. A paper with normal body temperature written in °F, °C, and Kelvin
20. Polar molecules
21. A metalloid
22. Something containing a transition element from period 6 on the periodic table
23. Something with ions in it
24. An inert gas (also known as a noble gas)
25. A picture of a famous chemist (extra point for a female chemist)