

Welcome to Honors Chemistry! You are about to embark on an amazing journey into the nanoscale world of chemistry on which you will

- learn how to identify the substances of which matter is composed
- investigate the properties of these substances
- study how the substances interact, combine and change forming new substances

I look forward to serving as your fearless leader and will share my knowledge and love of chemistry with you as your teacher. This summer you will begin your journey with The Great Chemistry Scavenger Hunt.

The goals of the Great Chemistry Scavenger Hunt are to:

- begin thinking and exploring concepts that we will be studying this year
- develop skills associated with observation and organization
- have some fun!

Please do not hesitate to email me with questions. Best of luck!

The Great Chemistry Scavenger Hunt

Here's what to do:

1. Use the internet or other sources of information to help you learn more about your list
2. Find an item and take a photo and label what is in the photo
2 points each (+1 additional point if a selfie)
3. OPTIONAL: Earn another point for writing a short (3 - 6 sentences) description explaining more about the background/chemistry of the item
1 additional point for each description
4. Make a copy of the following Google Doc and organize all your photos according to their item number on the list. I have completed one as an example for you.
https://docs.google.com/document/d/1Bmf6tvjjQgCWWULfdUw8g9ufXHS_bbmfdwRZdpXEx38/e dit?usp=sharing

GOAL: Earn 100 points

5. Share your Google Doc with me by 8 am on the first day of school.

- 4 points for each day late

You do not need to find all the items on the list...just do enough to reach your goal of 100 points!

The Great Chemistry Scavenger Hunt

Example] a solution with the solute and solvent identified (The solute is _____ and the solvent is _____.”)

1. something containing sulfur
2. a polymer of ethylene terephthalate
3. a recent (June 1 – August 15, 2019) newspaper article with a chemistry theme
4. a picture of a scientist from the same country that your family originally comes from
5. metric container with the SI unit for volume
6. something with a gas pressure that exceeds 2.0 atm
7. something with a gas pressure that is less than 1.0 atm
8. a proton donor
9. result of a chemical change
10. allotropic form of carbon
11. an ionic compound
12. sample of something ductile
13. a product containing an element with 13 protons
14. sample of elemental zinc
15. sample of a hydrocarbon
16. 2-propanol
17. a volatile liquid
18. a crystalline substance that tastes sweet
19. something with L-carvone or D-carvone in it
20. a non-electrolyte that dissolves in water
21. something that contains an element with an atomic number of 47 and a mass number of 107
22. something containing potassium that is not yellow
23. a covalent molecule
24. a polymer
25. a hydrated crystal
26. methyl salicylate
27. sample of something brittle
28. an electrolyte
29. a heterogeneous mixture
30. a source of calcium
31. substance containing a halogen
32. a solid solution
33. a substance with a pH greater than 7
34. food source of boron
35. a catalyst
36. something paramagnetic
37. a mixture of two miscible liquids
38. a voltaic cell
39. an oxygen-containing substance
40. a non-aqueous solvent
41. a substance with a boiling point below that of water
42. an example of a colloid that you can find in your refrigerator
43. a nonmetal
44. 6.02×10^{23} of anything
45. something with an alcohol group in it
46. something with an ester group in it
47. a mixture that could be separated by paper chromatography
48. something containing a transition metal from period 6
49. substance with a specific gravity less than 1
50. a substance that you drink that has a pH less than 7