

Big Chem: Unit 3 Matter

PRINT Name _____ Period _____

For research, go to The On-Line Reference Text Unit 3. [Matter](#)

EXPLAIN YOUR ANSWERS!

1. Classify the following materials as heterogeneous mixtures, solutions, compounds, or elements.
 - a. air, b. trail mix, c. paper, d. table salt, e. alcohol, f. apple, g. milk, h. plutonium, i. water.
2. Indicate how you would demonstrate that each of the following is a heterogeneous mixture or a homogeneous mixture:
 - a. a piece of lumber, b. a glass of soda pop, c. a piece of cloth advertised as 50% wool and 50% synthetic.
3. Classify the following properties as chemical or physical.
 - a. color, b. reactivity, c. flammability, d. odor, e. porosity, f. stability, g. ductility, h. solubility, i. expansion, j. melting point, k. rusting, j. reacts with air
4. Classify the following changes as chemical or physical:
 - a. digestion of food, b. fading of dye in cloth, c. growth of a plant, d. melting of ice.
5. Classify the following changes as chemical or physical:
 - a. explosion of gasoline in an automobile engine, b. formation of clouds in the air.
6. Make a list of five solutions commonly found in the home.
7. Classify the following materials as heterogeneous mixture, solution, compound, or element.
 - a. paint, b. copper, c. granite, d. leather, e. corn syrup, f. gold.
8. Classify the following properties as chemical or physical:
 - a. density, b. melting point, c. length.

STAPLE THIS PAPER TO YOUR PAPERS (at home).
Turn in at the Beginning of the Period when due.