

Chemistry Quiz #1 - SNC 1D

1. For each of the following, identify as an:
- element
 - compound
 - solution
 - colloid
 - suspension
 - mechanical mixture

toothpaste	
potassium	
kool-aid	
table sugar (a.k.a. sucrose), chemical formula is $C_{12}H_{22}O_{11}$	
muddy water	
a tree	
potassium aluminum sulphate, chemical formula is $KAl(SO_4)_2$	
silver metal	
air	
a simple golden ring composed of 75% gold, 12.5% copper, 12.5% silver	

/10 A

2. What is the key difference between a chemical change and a physical change?

/2 K

/12

3. Give one example of a quantitative physical property that can be used to identify a substance.

/1 K

mega M	kilo k	hepto h	deca da	base unit	deci d	centi c	milli m	micro μ
←	←	←	←	←	←	←	←	←
÷1000	÷10	÷10	÷10	÷10	÷10	÷10	÷10	÷1000
→	→	→	→	→	→	→	→	→
x1000	x10	x10	x10	x10	x10	x10	x10	x1000

4. Determine the density in mg/mL of pure silver given that a 25.236 g sample of silver occupies a volume of 2.403 L. Use the full format followed in class.

/6 A

5. Determine the volume in L of 500 kg of table salt (NaCl) if the density of table salt is 2.16 g/cm³

/8 A

/15