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## Chemistry Quiz #1 - SNC 1D

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

lithium	element
clear apple juice	solution
muddy water	suspension
air	solution
potassium sulphate ( $K_2SO_4$ )	compound
brass (a metal made from 67% copper and 33% zinc by mass)	solution
acetyl salicylic acid (ASA – also known as aspirin), has a chemical formula of $C_9H_8O_4$	compound
silver metal	element
a fish	mechanical mixture
suntan lotion	colloid

2. Is the rusting of a nail considered a physical or a chemical change, explain! (point form is fine)

chemical change, a new substance is formed

3. Although mass is a quantitative physical property, why can it not be used to identify a substance.

mass simply tells you how much of a substance you
have, it does not tell you anything specific about
that substance (such as density, melting point,
boiling point

mega	kilo	hepto	deca	base	deci	centi	milli	micro
M	k	h	da	unit	d	c	m	µ
÷1( x1(	<b>-</b> +	+ + 10 ÷1 → - 10 x1	• -	<b>)</b> –	<b>-</b>	÷ -	→ -	<del>)</del>

4. Determine the mass in g of a piece of silver with a volume of 0.585 L if the density of silver is 10.50 mg/mL. Use the full format followed in class.

m = ? (g)	m = DV
D = 10.50  (mg/mL)	m = 10.50 mg/mL X 585 mL
V = 0.585 L → 585 mL	m = 6142.5 mg
	m = 6.1425 g

5. Determine the mass in kg of 25.00 L of vinegar, if the density of vinegar is 1.050 g/mL

m = ? (kg)	m = DV
D = 1.050  g/mL	$m = 1.050 \text{ g/mL} \times 25 000 \text{ mL}$
V = 25.00 L → 25 000 mL	m = 26250 g
	m = 26.25  kg