Classification of Matter

Part A: Classification of Matter

1. Fill in the I	Blanks		
A(n)	_ is a pure substance that is made	of only one k	ind of atom.
The symbol for a(r	n) is always one or	two letters. W	hen the symbol
contains two letter	s, the first letter is always	, and th	ne second
letter is always	·		
A(n)	is a pure substance containing to	wo or more ele	ements that are
COI	mbined. A(n) is rep	presented by a	chemical
Th	ne elements in a(n)	always combi	ine in
pro	oportions.		
A(n)	is made of two or more substance	ces that are	
combined. A(n)	that is uniformly mix	xed is called _	·
A special name for	r this is a(n) A(n)		_ that is not
uniformly mixed is	s called A special	type of mixtur	re that is a solid
of	two or more metals is called a(n) _		
2. Identify each	ch of the common items below as	an element, a	compound or a mixture. Their
chemical fo	ormulas have been given to help yo	ou out.	
a. Sug	$gar (C_6H_{12}O_6)$	h.	Granite (SiO ₂ & KAlSi ₃ O ₃ &
b. Pho	osphorous (P ₄)		$K_3Si_3O_{10}$)
c. Bat	tery Acid (H ₂ SO ₄)	i.	Drain Cleaner (Al & NaOH
d. Air	$(N_2 \& O_2 \& CO_2)$		&)
e. Oxy	ygen (O ₂)	j.	Sodium (Na)
f. Mil	k (C ₆ H ₁₂ O ₆ & H ₂ O &	k.	Water (H ₂ O)
C_{50}	$H_{102}O_3$)	1.	Salt Water (NaCl & H ₂ O)
g. Gol	ld (Au)		,

Part B: Chemical and Physical Properties

Classify each of properties listed below as PP (Physical Property), PC (Physical Change), CP (Chemical Property), CC (Chemical Change)

1.	Color	10.	reactivity	
2.	Combustibility	11.	Unreactive	
3.	Hardness	12.	Odor	
4.	Density	13.	stability	
5.	Mass	14.	Malleability	
6.	Melting point	15.	Tendency to corrode	
7.	Ductility	16.	reacts with water	
8.	Volume	17.	Weight	
9.	rusting	18.	solubility	
descril	oing each property. Select the	names fro	bstance are listed below. Write the general name om the following properties: chemical, malleability, ility, mass, odor, weight, combustibility.	
20.	Can easily be hammered into			
21. 2.8 g/cm ³				
22. Burns when heated in the presence of O_2 .				
23. Stinks when heated				
24.	500 °C		_	
25. Can easily be drawn into a wire				
Classify the following properties as extensive or intensive.				
26.	mass 27.	ductility _.	28. melting point	
29.	color30. len	gth	31. conductivity	