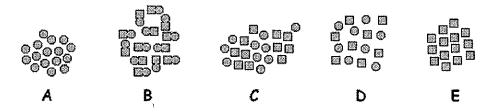
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Elements, Compounds & Mixtures Worksheet

Part 1: Read the following information on the classification of matter. Fill in the blanks where necessary.

Elem	ents:				
0	An element is a p	ure substance made of only one ty	ype of		
0	An element be separated into simpler substances.				
0	Over 100 existing elements are listed in the				
Com	pounds:				
0	Compounds are pure substances made up of particles called				
0	© Compoundsbe separated into elements by chemical change.				
0	The properties of elements it conta	- · · · · · · · · · · · · · · · · · · ·	than the properties of the		
Mixt	ures:				
0	Mixtures are a m	ade up of two or more types of $_$	and		
		be separated by physical chang	es.		
Ø	In a homogeneou	ıs mixture, one substance is	in another. A iform. You can tell that there is more than		
	ne substance in it. : 2: Classify ea	ch of the following as pur	e substances (P) or mixtures (M).		
If it	is a mixture, i	dentify whether it is a solu	ution (S) or a heterogeneous		
		e the letter X if the examp	•		
D:	iamond (C)	Sugar (C ₆ H ₁₂ O ₆)	Milk		
A	ir	Sulfuric Acid (H ₂ SO ₄)	Gasoline		
K	rypton (K)	Bismuth (Bi)	Uranium (U)		
W	ater (H ₂ O)	Alcohol (CH3OH)	Pail of Garbage		
A:	mmonia (NH₃)	Salt (NaCl)	Energy		
W	ood	Bronze	Ink		
D	ry Ice (CO ₂)	Baking Soda (NaHCO3)	Titanium (Ti)		
Ir	on (Fe)	Popcorn	Gold (Au)		
E1	ectricity	A dog	Concrete		

Part 3: Which of the following substances are pure substances and which are mixtures?



- 1) Which two substances would have to be mixed to get substance D?
- 2) a) If substances C and D were to be separated, would you get the same pure substances?

- b) What is different about substances C and D?
- 3) a) What is different about the particles in substance B compared to the other 4 substances?

b) Why is substance B a pure substance?