

PSC-4012 Quiz #3

Name:

Date:

1. Complete the table below indicating the name or chemical formula of each compound.

Chemical formula	New nomenclature	Traditional nomenclature
PI_5		
	Iron (III) oxide	
NiSO_4		
		Calcium phosphate
	diphosphorus pentasulphide	
Cu_2O		
		Ammonium nitride
AgCH_3COO		

2. Give the chemical formula of the binary compounds formed by the combinations of elements H, J, L, and M, Q, and R from the families indicated below:

Element H: IA

Element M: IVA

Element J: IIA

Element Q: VA

Element L: IIIA

Element R: VIIA

Compound formed by H and R:

Compound formed by J and Q:

Compound formed by L and R:

Compound formed by H and M:

3. Match each of the substances below with the appropriate category of matter, by writing the letter corresponding to your answer in the space provided.

Categories: A - Homogeneous mixture
 B - Element
 C - Suspension
 D - Heterogeneous mixture
 E - Compound

Substance:

1. the air in this classroom _____
2. fresh lemonade (made by squeezing real lemons) _____
3. sterling silver (an alloy) _____
4. 100% pure tungsten lightbulb filament _____
5. 100% pure glucose ($C_6H_{12}O_6$) _____
6. saline solution (salt water) _____
7. cookie dough ice cream _____
8. 100% pure salt (NaCl) _____
9. gardening soil _____
10. your exhaled breath _____