## Chemistry Section 2

Name		//		
HOMOGENEOUS	AND	HETEROGENEOUS		

In the table below, classify the following substances or mixtures as homogeneous or heterogeneous by placing an  ${\bf X}$  in the appropriate box.

		HOMOGENEOUS	HETEROGENEOUS
1	alcohol		
2	aluminum foil		
3	beach sand		
4.	black liquid coffee		
5	cherry vanilla ice cream		
6	dirty polluted air		
7	flat soda pop		
8	iron		
9	paint		
10	pure clean air		
11	salad dressing		
12	soil		
13	spaghetti sauce		
14	sugar		
15	sugar water		

war	
SEF	PARATING MIXTURES INTO THEIR COMPONENTS
valua chen	n we wish to separate mixtures into their individual components (e.g., if one is more able or useful on its own) We can do this by using the differences in the physical and nical properties of the components. For the mixtures below, describe a method that would was to separate them into their components?
1.	Sand and water
2.	Sugar and water
3.	Oil and water
4.	Sand and gravel
5.	A mixture of water and alcohol (ethanol)
	<del></del>
6.	A mixture of iodine solid and sodium chloride (Hint: Iodine is not soluble in water.)
_ 0	
7.	A mixture of lead and aluminum pellets
9	
8.	A mixture of salt and iron fillings
9	

NameSOLUTIONS	S, COLLOIDS AN	Date	//_ DNS
Label the following li each type of mixture	quid mixtures as a solution	, colloid or suspension ar	nd provide an example of
	small particles that do ne bottom, even if it sits		
		Kind of mixture:	
		Example:	
settle to the bo	im sized particles that ottom if it sits for a tends to scatter light		
		Kind of mixture:	
		Example:	
	particles that settle to sits for a while.		
		V:	
		Kind of mixture:  Example:	

Name	Date

## **Electron Configuration Practice Sheet 1**

Identify the element that corresponds to each of the following electron configurations?

Electron Configuration	Element Name	Element Symbol
1. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>3</sup>		LIOTHOR CYMBOL
2. 1s <sup>2</sup> 2s <sup>1</sup>		
3. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup>		
4. 1s <sup>2</sup>		
5. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup> 4s <sup>1</sup>		
6. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>5</sup>		
7. 1s <sup>2</sup> 2s <sup>2</sup>		
8. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>3</sup>	•	
9. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup>		
10. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup>		
11. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup> 4s <sup>2</sup>		
12. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>1</sup>		
13. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>4</sup>		

Name			Date /	/	' <u></u>
QUESTIONS	<b>ABOUT</b>	LIGHT	<b>PROPERTIES</b>		

Provide the letter of the definition or description in column II that matches the scientific terms in column I.

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1.	angle of incidence		a)	a continuous band of colors arranged according to frequency or wavelength
2.	angle of reflection	-	b)	an imaginary line drawn at a right angle to the surface of a material
3.	crest		c)	the bending of light rays as they pass through another substance
4.	frequency		d)	the distance between corresponding points on two waves
5.	hertz	:	e)	this is frequency times wavelength
6.	index of refraction		f)	the highest point of a wave
7.	light		g)	the lowest part of a wave
8.	normal		h)	the number of waves that pass a given point in one second
9.	photon		i)	a single particle of light
10.	prism	<del></del> .	j)	describes how much a ray of light will bend as it travels through a specific material
11.	reflection		k)	the angle at which a ray "bounces off" a surface
12.	refraction		I)	the angle at which a ray of light strikes a surface
13.	trough		m)	the bouncing of a wave off another object
14.	-		n)	a clear or translucent material that separates white light into component colors
15.	wave velocity		0)	a type of electromagnetic radiation
16.	wavelength		p)	the unit for frequency