## **GROUP QUIZ UNIT 02**

24. \_\_\_\_\_

NAMES					
Answer Key:					
1	25	33			
2	26	34			
3	27	35			
4	28	36			
5	29	37			
6	30	38			
7	31	39			
8	32				
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10	40.				
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19	41.				
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21					
22					
22					

Name:					Period	Date	
	Classification	on of Matt	ter – GR	OUP QUIZ	7		
Multip	le choice: Choose the BEST answer (2 pts. ea	ach)					
1.	An experiment that determines the density of water is investigating  a) a chemical change b) an extensive property c) a chemical property d) an intensive property						
2.	A chemical property of oxygen is that ita) is the most abundant element in Earth's b) combines with hydrogen to form water	crust c) boi	ls at -183°C s a density of 1	.43 g/L			
3.	A mixture of different gases is typically a) heterogeneous b) homogenous		ompound	d) an ore			
4.	Which of the following is NOT a sign of a a) unexpected color change b) prec	chemical change ipitate formation		ation d)	change in appea	nrance	
5.	Homogeneous matter a) will always contain different phases b) is not uniform throughout		c) is not a solution d) is evenly mixed				
6.	When two or more kinds of matter retain that a) an ore b) a compound		ristic propertie ure substance	es when combined,	that combined d) a mixt		
7.	If every sample of a mixture has exactly the same uniformity (looks the same throughout), it is  a) heterogeneous b) a solution c) a compound d) a pure substance						
8.	A substance with <b>fixed proportions</b> (define a) a mixture b) a solution				and 88.8% oxygen by mass must be a d) compound		
9.	To separate the vegetables from broth in ve a) homogeneous b) a pure substan		may be straine nixture	d. This indicates th d) a solution		up is	
10.	Which of the following is a compound composed of three types of elements? a) blood, sweat and tears b) sand, salt and water c) sugar $(C_6H_{12}O_6)$ d) carbon dioxide $(CO_2)$						
11.	Ice melting is considered a  a) chemical change b) physical change	nge c) n	niracle	d) exotherr	nic change		
12.	A pure substance is a(n) a) mixture or element b) solution	c) element or	chemical com	pound d)	element or solu	tion	
Identify	y the following as either a physical (P) or che	emical (C) CHAN	IGE (2 pts. eac	<i>h</i> ).			
13	Building a box from cardboard		16 A	loaf of bread is sli	ced in two		
14	_ Letting milk turn sour		17 P	latinum wire is rea	cts with acid		
15	_ Allowing silver to tarnish		18 M	lagnesium chloride	dissolves in wa	nter	
Identify	y the following as either a physical (P) or che	emical (C) PROP	ERTY (2 pts. e	ach).			
19	_ Reactivity of francium metal		22 S	llver is very luster			

23. \_\_\_\_ Conductivity of copper

24. \_\_\_\_ Sulfur has a bad odor

20. \_\_\_\_ Hydrogen gas is highly combustible

21. \_\_\_\_ Hydrogen peroxide is a good oxidizer

Identify the following physical property as either an ex	tensive (E) or intensive (I) property (2 pts. each).
25 Volume of the gas decreased	28 Density
26 Boiling point of magnesium	29 The length of the gold bar was cut in half
27 Mass	30 Color of phosphorous is white
Identify the following as an element (E), compound (questions MAY HAVE MORE THAN ONE answer choice	C), homogeneous mixture (HO), or heterogeneous mixture (HE) (2 pts. each). Some ices!
31.	
32. A solution	
33. Nitrogen gas	
34. Air	
35. Fruit salad	
36. Distilled (pure) water	
37. Sugar	
38. Sugar solution	
39.	

40. Create a step-by-step procedure to separate a mixture of sugar, iron filings, and water using the techniques you learned in class. Be as specific as possible including what equipment you will use (10 points).

Law of conservation of mass problem:

41. If 13.5 g of lithium (Li) is added to 24.0 g of NaOH, and 17.5 g of sodium (Na) is produced, how much LiOH was produced as well?

Li + NaOH → LiOH + Na