## 1-G11 Chemistry, O1-W1- Test#1

## **Multiple Choice**

Identify the choice that best completes the statement or answers the question.

	1.	<ul> <li>A physical property of zinc metal is</li> <li>a. its color</li> <li>b. whether it burns</li> <li>c. how it reacts with nitrogen gas</li> <li>d. whether it changes when placed into acid</li> </ul>				
	2.			 a cola drink		
		1		concrete		
	3.	The density of a material depends on				
		5		its mass and volume its weight		
	4.	Matter that is large enough to be seen is	u.	its weight		
	ч.		с.	a scientific model		
			d.	submicroscopic		
	5. Water and hydrogen peroxide are both composed of atoms of hydrogen and oxygen. The differences lie arrangement of the atoms.					
		C C	с.	macroscopic		
				submicroscopic		
	6.	Classification based on measurements is said to be				
		1		qualitative		
	_		d.	quantitative		
	7.	Gold melts at 1064°C. Melting point is a a. chemical change	2	physical change		
				physical property		
8. Sugar, which is a substance, can be broken down into carbon, oxyge				to carbon oxygen and hydrogen Sugar is a(n)		
	0.			mixture		
		b. element	d.	solution		
	9.	Which of the following has the greatest density?				
			с.			
		b. oxygen	d.	ice		
	10.	If 14 atoms of carbon react with 28 atoms of oxygen to form carbon dioxide, how many atoms are contained in the carbon dioxide, that is produced?				
		in the carbon dioxide that is produced? a. 14	с.	28		
				42		

## Matching

Match each item with the correct statement below.

- a. alloy
- b. aqueous solutions
- c. chemical property
- d. compound
- e. energy
- f. exothermic
- g. formula
- \_\_\_\_\_ 11. The type of change in which the identity of substances does not change.
- \_\_\_\_\_ 12. Solutions in which water is the solvent.
- \_\_\_\_\_ 13. Any chemical reaction that gives off energy.
- \_\_\_\_\_ 14. An observation that makes use of measurement.
- \_\_\_\_\_ 15. The material that is dissolved in a solution.

## Problem

Below are listed changes that can be observed in everyday life. Tell whether it is a physical change or a chemical change.

16.	an icicle melting	A- Physical	B- Chemical
17.	magnetizing a piece of steel	A- Physical	B- Chemical
18.	rubbing alcohol evaporating from the skin	A- Physical	B- Chemical

The lists give the density of selected substances. Answer the following questions.

Substance	Density (g/mL)
water (at 4.0°C)	1.000
hydrogen	0.00090
carbon dioxide	XXX
gasoline	0.68
copper	8.89
silver	10.5
mercury	13.595
tungsten	19.3

19. Which of the substances listed has the greatest density? the lowest density?

	Greatest	Lowest
А	tungsten	hydrogen
В	tungsten	gasoline
C	silver	carbon dioxide
D	silver	water

- h. law of conservation of mass
- i. mass
- j. matter
- k. physical change
- l. properties
- m. quantitative
- n. solute

- 20. To complete the list, calculate the density for carbon dioxide if 250.0 mL of the gas has a mass of 0.4997 g.
  - A- The density is 0.001999 g/mL.
  - A- The density is 1.1 g/mL.
  - A- The density is 1.4 g/mL.
  - A- The density is 1.6 g/mL.