				Block:			
	it I Study Guide	Name:					
1.	Define chemistry. Study of	matter		0000			
2.	Define matter. anything	that has	mass and	takes up space.			
3	Draw the arrangement and describe	the movement of p	particles in each st	ate of matter: solid, liquid,			
3.	gas.	000		gas 1			
	888			gas random movement			
	Solid: vibrate of Name and describe all phase change	es among the three	states of matter (i	.e. melting, solidification,			
4.	condensation, etc.)	blimation					
	Condensation, etc.,	WITT M LIOF	-adim-	\mathcal{I}_{i}			
	Solid melt	> liquid vo	pori callery	gas			
	Solidification	\	condensation	n			
5.	How are mixtures different from su	ubstances?		1 11 thather			
Subs	Honces are chemically	combined	mixtures	are physically together			
OWD							
6	Identify each of the following as ei	ther a mixture or su	bstance.	substance			
	a. Carbon dioxide SUBST	ance	a. H₂U	substance mixture			
	b. soil mixture		e. Fe(+)Zn	mixiare			
	c. Raisin bread MIXMY	e					
7	. There are two types of substances	: element and comp	ound. What is the	difference between the			
	two? Compound: two	or more d	ifferent typ	pes of atoms Chem.			
element: one type of atom.							
8	. Identify each of the following as e	ither an element or	compound.	2000000000			
	a. Carbon element	Ţ.		compound			
	b. Calcium element		e. Fe e	element			
c. Glucose Compound							
9. Identify each of the following as either a metal or nonmetal.							
	a. Aluminum metal		c. Phosph	norus nonmetal			
	b. Helium non me	ta I	d. Potassi	ium metal			
1	.0. There are two types of compound	**************************************	t. What types of	elements combine to form an			
	ionic bond? What types of eleme	nts combine to forn	n a covalent bond	?			
	ionic bond: Metal	and Nonn	neta I				
	Covalent bond: Nor		A CONTROL OF THE	al			
1	1 Name the following compounds o	orrootly.					
	a. Rb20 rubidium	backawist.	d. PO PY	iashuakm? Wounder			
	b. Nosa Pentarintogen	Tiebtazail (04	e. MgO γγ	nosphorus monoxide nagnesium oxide			
	c. BaCl2 barlum c'	nloride	r. Ga ₂ O ₃ . 90	allium oxide			

Use the o	diagrams and key below	to answer Questions 11-	13.						
Key	Mg \triangle	Kr 🔘	KCI 🗆	MgO 🛆					
Answer Choices	000	$\bigcirc \triangle \bigcirc \triangle$	8						
	Α	В	C	D					
12. Which diagram(s) above represent(s) a pure substance? A and D									
13. Which diagram(s) above represent(s) a mixture of elements?									
		esent(s) a mixture of co							
15. How is a chemical change different from a physical change? Chem. Do ottoms are rearranging can not be reversed phy. Do can be undone. 16. List four (4) indications of a chemical change. energy: Fire, light, electricity, Dtemp Precipitate: liquid + liquid = Solid color D: un predicted gas production: Fizz Bubbles, 17. Identify each of the following change as either physical or chemical. a. Dissolving Kool-Aid powder in water Physical b. Melting of ice Physical c. Fizzing when an Alka-Seltzer tablet is added to water Chem									
d. Decomposition of food by stomach acid during digestion chem									
e. Burning of wood at a camp fire CNEM									
18. What is the difference between a homogeneous mixture and a heterogeneous mixture? Nomogeneous uniform heterogeneous can see different									
				1)(1)	.+				
19. Ident a	tify each of the following a. Italian dressing $+$	s mixture as either homo Hetero geneous	ogeneous or heterogene	ous.					

b. Soda Homo geneous

c. Chocolate chip cookie Heterogeneous

20. Describe the six for techniques used in lab to physically separate mixtures.

Ofilter

4 chromatography

2 evaporation magnetism

21. Describe the one (1) technique used in lab to chemically change a substance.

electro 14 sis

22. Name the lab equipment that you used in lab and describe its function.