Unit	1 Review	Name: _	KEY				Pe	riod:
1.	The two gene	ral propertie	es that all m	natter shares are	Mass	and	valum	e
2.				that is matter wh				
				a. apple		f. heat		
				b. air		g. prot	on	
				c. light		h. oil		
				d. water e. RNA		_√_i. ice	o waves	
				e. KINA		J. radi	o waves	
3.	List the 4 sta	tes of matte	er, and <u>circl</u>	e the correct des	criptions of 1	heir propertie	25.	
		olid	_		c.	aus	Tay .	
		: indefinite		_			finite or defi	
		<u>e</u> : indefinite					efinité) or def	
	partic	le motion: _	Vibrate	in place		<u>particle</u> mot	ion: higher	Mrau.
	b. No	uid			d.	Dlasn	100	NOW MY
		indefinite	— or definite	2	<b>u.</b>		finite or defin	nite
		e: indefinite	THE REAL PROPERTY AND ADDRESS OF THE PARTY O				finite or def	
	partic	le motion: _	Moveme	nd freedom		particle mot	ion: highe	est ener
			flo	w around			random	
4	Classify anch	type of sub-	******	presented in diagr				_
		Type of Subs	runce as re	presented in diagr	ams 1-4 as <u>e</u>	<u>iemeni, compo</u>	una, or mixtur	<u>e</u> .
<u>ט</u>	iagram Key:		S and	• 0			60	1
•	atom A	-	•	0	* *	2,∞	000	
0	atom B						0 0	<b>J</b>
		(1)	A	(2)		(3)	(4)	
~	1			**************************************		A	ola	
C	lassification:	elen	nent	mixture	Cor	nfound	eem	
5	Mhich of the	disonama fn	om quaction	5. represent <u>pure</u>	cubetancae	(that is NOT	[ mixtured)	
		_		e of one true			mixtures)	
		, ,		ation and ask if yo	V -		out it)	71
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		or mo or sprain		. (1 N	-6 3 3 17	(1) a	
6.	Classify the f	ollowing mat			~ ·			
	element			mpound				
	homogeneous	mixture het	rerogeneous	mixture			rated by	_ means.
	a. cheeseburg	er	ı	netero		physical	<u>ircle one</u> ) chemical	NO
	b. salt water			nomocinio	<u> </u>	physical	chemical	NO
	c. air			nomogeneur	_	physical	chemical	NO
	d. hydrogen go	as (H <sub>2</sub> )		element	-J	physical	chemical	NO
	e. silver (Ag)	-		element	_	physical	chemical	NO
	f. steel		-	homogeneon	<del>اخ</del>	physical	chemical	NO
	g. ice cream s	undae	1	hetero		physical	chemical	NO
	h. steam (H <sub>2</sub> O	)		compaind	_	physical	chemica	NO
	i. table salt (N	VaCl)		bourding		physical	chemical	NO

j. carbon dioxide (CO2)

k. ice (H<sub>2</sub>O)

NO

NO

chemical

chemical

physical

physical

7.	For	the materials listed in question 6, list all that are <u>pure substances</u> . (recall your	·#5 answer above)
	(I)	hydrogen, H2 @ table sall, Naci	
	<u>Š</u>	Silver, Ag & conburn diskide, CO2	
(	3)	steam, H20 6 100, 120	
8.		udent tries to identify three unknown white solids by observing and recording w (a-e). Which property would be the best to identify this unknown solid?  A, white crystalline solid  B. mass is 7.00 g  C. volume is 2.0 mL  Odensity is 3.50 g/mL  E. insoluble (does not dissolve) in water	the data listed
9.	A fe	w properties of aluminum are listed. Classify each property as a chemical or p	hysical property.
		a. can be rolled into sheets	27
		Cb. reacts with HCl to produce H₂ gas	A
		c. thin, white coat of aluminum oxide forms the surface	$\Delta$
		Od. melts at 660.3 °C	
		e. density is 2.70 g/mL	13
10.	Mata	ch each item with the correct statement below.	
		A. element	
		B. compound	
		C. homogeneous	
		D. heterogeneous	
	D	describes mixture with a non-uniform composition (has different parts)	
	B	substance that can only be changed into simpler substances by chemical mean	ns
	A	cannot be separated (broken down) by chemical means	
	<u>C</u>	describes mixture with a uniform composition	

Market State of

Element, Compound	Homogeneous Mixture	leterogeneous M	ixture. Explain your choice
Pure Substance	Solution (Time Sales)	ا (م	······································
	s left to stand for several l e is a clump of white solid o		d of this time, the top of th the liquid.
U		separat	es into a clear
liquid + a	while solid		
o) A clear, colorless liquio away at 100°C.	d is heated. Some of it boi	ls away (evaporato	es) at 25 °C, then the rest
Homogenew	because 2	liquids w	different
· ·	separated phy	-	
) When heated strongly	, a pure green solid decomp	oses into a white	solid and a colorless gas.
Compound	because <u>it is</u>	chemical	ly broken dow
into 2 new su	b stances (Green	nsolid > u	mite solid + gas)
	not be broken down into ot		•
Element	because <u>IT CO</u>	innot be	decomposed
broken dou	m into a sim	pler sut	Stance
•	arnings refers to a chemical programme fragile (c. flammable)	oroperty? d. handle wi	th care
3. Baking soda is a white poi	wdery solid which reacts with	acids. It has a den	sity of 2.20 g/mL Identify ea

14. Describe the steps you would take to separate a mixture of sand and sugar.
1. place mixture in a funnel wffilterpaper
2. Pow hot, boiling water trough it + collect filtrad
3. Evaporate the fittrate until the sugar
recrystallizes
15. Substances formed from atoms of two or more elements are called: COMPOUNDS
16. List three physical properties of a copper penny
orange luster malleable
ductile density = 8.9 g/cm3
17. What do you do if the flame of your Bunsen burner goes out?
Shut off the gas immediately
18. How do you put out an alcohol fire?
With the fire extinguisher