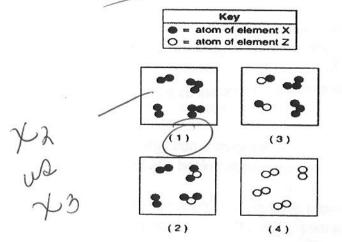
			Classification of Ma	atter	elements
1.	Which	substance can i	not be broken down by a c	hemical chan	ae?
	i)	ammonia	NH ₃		
	ii)	ethanol	CH₃CH₂OH		
	iii)	propanol	CH₃CHCH₂OH		
	(iv)	zirconium	Zr		
2.	Which	terms identify tyr	pes of chemical reactions	•	
			ocs di chemical reactions	7	
	i) deco	mposition and su	this time		338 (31%) 985*
	(ii) deco	omposition and sy	IDINACION		
	iii) den				
	iv) dop	osition and sublin	nation	1	0.0
	IV) GED	esition and synth	esis	Lem ch	ange
2	87			100	0
3.	vvnich	change results in	the formation of different	substances?	er 1995 ya Terbah ya
					Plant 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		ng of propane		1.3	Obside Otto
	ii) melti	ng of NaCl			A total
	iii) depo	etion of CO ₂			
	iv) solid	dification of water			The state of the s
		/\) field (field #2		
4.	Which	equation represe	nts a single replacement r	eaction?	
	(1) 2 H	$Q_2 \rightarrow 2 H_2O + O$	2	J-182123	and the state of the state of
		$O_2 \rightarrow 2 H_2O$			
	6	engaga e sasar a sasar a sasar a sa	na de transfer de 🖊 e e de e	Confiction in	14-1977599 11-19-7
	(3) H ₂ S	$O_4 + Mg \rightarrow H_2 +$	+ MgSO ₄	7 G Insen	ebesite name a co
	(4) HCI	+ KOH → KCI	+ H ₂ O	Albasan	mena u se
					io atateorization
5.	What is	formed when two	atoms of bromine bond to	ogether?	
			and the second s		si coeding d
357	(1) a m	patomic molecul	é = latom		
	(2) a dia	tomic molecule		San Taran	so y attraction
	(2) g ula	mornic molecule			
	(2) = 1		and the second	y and company	to chapman, ecc
	(3) a nei	erogeneous mixt	ure grand and a	engla englisch	eran I de la regresió de
			2 Silicotonum	grand from the	South and the state of
	(4) a hor	nogeneous mixtu	re a solution project and		potential contraction
6.	Which p	article has no cha	arge?		
		THE THE THE	arge?		
	(1) electi	ron	grulians		
	(2) positi	ron			MA SECTION
•	(3) neutr	OH			
	(4) proto	n		£0.	

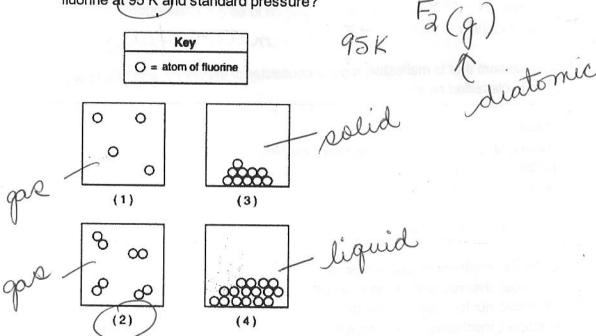
	: % (2)	The element aluminum is classified as a :	1
		(1) phetal	
		(2) nonmetal	
		(3) metalloid	
		(4) noble gas	
	12		
	8.	Salt water is classified as a:	
		(1) compound because the proportion of its atoms is fixed	
		(2) compound because the proportion of its atoms can vary	
		(3) mixture because the proportion of its components is fixed	
		(4) mixture because the proportion of its components can vary	
	0	with the control of t	
	9.	Powdered iron is magnetic, but powdered sulfur is not. What occurs when they form a	
		mixture in a beaker at room temperature?	
		(1) The iron retains its magnetic properties.	
		(2) The iron loses its metallic properties.	
		(3) The sulfur gains magnetic properties.	
		(4) The sulfur gains metallic properties.	
	10.	Which term represents a type of nuclear reaction?	
		(1) condensation	
		(2) vaporization	
		(3) single replacement	
	**	(3) single replacement (4) natural transmutation	
		(1) Islandi dalisinatatoji	
	11.	Equal amounts of ethanol and water are mixed at room temperature and at 101.3 kPa.	
		the mixed at 10011 temperature and at 101.3 kPa.	
	11	Which process is used to separate ethanol from the mixture?	
		(1) distillation	
		(2) filtration	
		(3) reduction	i
		(4) ionization	, 1
		yell.	0
	12.	A sample of a substance has these characteristics:	
		Da INA = John a -id	
		• melting point of 984 K	
		• hard brittle solid at room temperature	
j		• poor conductor of heat and electricity as a solid = N M OR -	
		good conductor of electricity as a liquid or in an aqueous solution	_
		1) distillation (2) filtration (3) reduction (4) ionization A sample of a substance has these characteristics: • melting point of 984 K • hard, brittle solid at room temperature • poor conductor of heat and electricity as a solid = NM or • good conductor of electricity as a liquid or in an aqueous solution	

	This sample is classified as:
	(1) a metallic element
	(2) a radioactive element
	(3) a molecular compound
	(4) an ionic compound
40	
13.	Which elements have the most similar chemical properties? (
	1) Si, As, and Te
	((2) Mg, Sr, and Ba
	(3) N_2 , O_2 , and F_2
	(3) N ₂ , O ₂ , and F ₂ (4) Ca, Cs, and Cu On PT new Leek
	on the week
14.	Which substances have atoms of the same element but different molecular structures?
	(1) He(g) and Ne(g)
	(3) K(s) and Na(s)
	$(2) O_2(g)$ and $O_3(g)$
	(4) $P_4(s)$ and $S_8(s)$
	γ_{Δ}
15.	A gas changes directly to a solid during
	Jan 9 12
	(1) fusion worker 11.0 . A.
	(2) saponification — S & G call the hundler
	(3) deposition
	(4) decomposition
	A gas changes directly to a solid during but good (1) fusion (2) saponification (3) deposition (4) decomposition (4) decomposition (5) deposition (6) decomposition (7) decomposition (8) decomposition (9) decomposition (1) fusion (1) fusion (2) saponification (3) deposition (4) decomposition
16.	A solid element that is malleable a good conductor (
	A solid element that is malleable, a good conductor of electricity, and reacts with oxygen is classified as a:
	any gent to diadomica as a.
	(1) metal
	(2) noble gas
	(3) metalloid
	(4) nonmetal
85	(4) Nothinetal
17.	Three forms of annual services
	Three forms of energy are:
	(1) obomical and the second se
	(1) chemical, exothermic, and temperature
	(2) chemical, thermal, and electromagnetic
	(3) electrical, nuclear, and temperature
	(4) electrical, mechanical, and endothermic
18.	Given the balanced equation representing
C10754	Given the balanced equation representing a reaction:
	$Zn(s) + H_2SO_4(aq) \rightarrow ZnSO_4(aq) + H_2(g)$
	12004(aq) + H2(g)
	1.0 land new
	Tele I cpd new cpd new element

- (1) decomposition
- (2) single replacement
- (3) double replacement
- (4) synthesis
- 19. Which diagram represents a mixture of two different molecular forms of the same element?



20. Which particle diagram represents the arrangement of F2 molecules in a sample of fluorine at 95 K and standard pressure?



- 21. Which statement describes the distribution of charge in an atom?
 - (1) A neutral nucleus is surrounded by one or more negatively charged electrons.
 - (2) A neutral nucleus is surrounded by one or more positively charged electrons.
 - (3) A positively charged nucleus is surrounded by one or more negatively charged electrons.
 - (4) A positively charged nucleus is surrounded by one or more positively charged electrons.

<i>-</i> 2.	Which sample of matter is classified as a substance?
	(2) milk mix
	(4) seawater nex
23.	Which statement describes a chemical change?
	(4) seawater new Product Which statement describes a chemical change? (1) Alcohol evaporates. (2) Water vapor forms snowflakes. (3) Table salt (NaCl) is crushed into powder. (4) Glucose (C ₆ H ₁₂ O ₆) and oxygen produce CO ₂ and H ₂ O.
24.	Given the balanced equations representing two chemical reactions:
	(I) CI ₂ + 2 NaBr → 2 NaCl + Br ₂ 2 NaCl → 2 Na + CI ₂
	Which types of chemical reactions are represented by these equations? (1) single replacement and decomposition (2) single replacement and double replacement (3) synthesis and decomposition (4) synthesis and double replacement
25.	Which elements are malleable and good conductors of electricity?
	(1) iodine and silver (2) tin and silver (3) iodine and xenon
	(4) tin and xenon
26.	Given the balanced equation representing a reaction:
	$2 H_2 + O_2 \rightarrow 2 H_2O$ $109 809 909$
	What is the mass of H ₂ O produced when 10.0 grams of H ₂ reacts completely with 80.0 grams of O ₂ ?
	(1) 70.0 g
((2) 180. g (3) 90.0 g (4) 800. g