Name:	Date:
Name:	Date

B

Unit B Quiz

Part A: Modified True/False
Indicate whether each statement is true or false. If false, change the underlined word or
phrase to make the statement true. 1. The behaviour of a substance as it changes into a new substance is a physical
change.
2. Metals share the properties of lustre, electrical and heat conductivity, malleability, and ductility.
3. Electrons have no charge, have the same mass as protons, and are located in the nucleus of the atom.
4. When an ion is formed, <u>protons</u> will be gained or lost to form negatively or positively charged atoms.
Part B: Sentence Completion
Complete the sentence.
5. A group of elements with similar properties is called a
6. When the outer shell of an atom is, the atom will have become an ion.
7. The atomic theory of takes into account the unique emission spectra of the elements.
8. A chocolate treat is left too close to a stove element and melts. This is a change.
9. Our atmosphere is matter that is best classified as a, because components like clouds and dust are visible.
Part C: Multiple Choice Circle the letter beside the answer that best completes the statement or answers the question.
10. The two instances of pure substances are
(a) homogeneous mixtures and compounds
(b) elements and heterogeneous mixtures
(c) elements and solutions
(d) elements and compounds

Name:	Date:	UNIT

Jn	it B	Quiz (continu	ued)				
11.	(a)	la pop is an examp			` .	element		
	(b)	homogeneous m	xtur	e	(d)	heterogeneous mix	ture	
12.	_	object has a mass sity?	of 12	200 g and a vol	ume	of 2.0 L (2000 cm ³). W	hat is its
	(a)	0.6 g/cm^3	(þ)	2400 g/cm^3	(c)	6.0 g/cm^3	(d)	167 g/cm ³
13.	sug					lowing experiment: t a time, to 100 mL		
	(a)	density	(b)	malleability	(c)	reaction with water	•	(d) solubility
14.	Wh	aich of the followi	ng is	an example of	a che	emical change?		
	(a)	water evaporating	<u> </u>	-	(c)	compost decaying candle wax melting		
15.	Wh stat		the s	grass on a cold	mor	ning, this is because	of w	hich change of
	(a)	deposition	(b)	freezing	(c)	melting	(d)	condensing
16.	Eva	poration is best de	escrib	oed as				
	(b) (c)	the gradual change the rapid change the change of sta the rapid change	of st te be	ate between a g tween a solid a	as ai	nd a liquid gas		
17.	Stro	ontium is a shiny o	elem	ent that conduc	ts he	eat and electricity. It	is cla	assified as a
						metalloid		solid
18.		s man showed tha ween charged aton		npounds are fo	rmeo	l because of the elec	trica	attraction
	` '	Ernest Rutherfor John Dalton	d			Michael Faraday Benjamin Franklin		
19.	Ion	s are formed wher	ì			•		
	(a) (b) (c) (d)	Atoms lose electr Atoms lose proto Atoms gain electr Atoms gain proto	ns ar rons	nd become nega and become po	ativel sitiv	y charged. ely charged.		

			Date:
Unit B Quiz (continued	d)		
Part D: Matching			
Chose the letter of the standar	rd notati	on symbol t	hat matches each of the following
20. sodium	(a)	$\frac{23}{11}S$	(e) $\frac{31}{15}P$
21. phosphorous ion	(b)	²³ ₁₁ Na	(f) ${}^{14}_{6}C$
22. cobalt ion	(c)	¹² ₆ C	(g) $_{27}^{59}Co^{2+}$
23. carbon-12	(d)	$^{31}_{15}P^{3-}$	
se sentences, formulas or diag	Periodia	'Γ-L-1.	1
se sentences, formulas or diag 4. Look up magnesium in the atomic number, the atomic	mass, an	'Γ-L-1.	1
Jart E: Short Answer Use sentences, formulas or diagonal A. Look up magnesium in the atomic number, the atomic	mass, an	'Γ-L-1.	1
Jse sentences, formulas or diag 24. Look up magnesium in the atomic number, the atomic	mass, an	'Γ-L-1.	1
Jse sentences, formulas or diag 24. Look up magnesium in the atomic number, the atomic	mass, an	'Γ-L-1.	1
Jse sentences, formulas or diag 24. Look up magnesium in the atomic number, the atomic	mass, an	'Γ-L-1.	1
Jse sentences, formulas or diage 4. Look up magnesium in the atomic number, the atomic 5. Draw a Bohr diagram for sil	mass, and	Table, and ad the ion cl	1
Jse sentences, formulas or diag 24. Look up magnesium in the atomic number, the atomic	mass, and	Table, and ad the ion cl	1
Jse sentences, formulas or diage 4. Look up magnesium in the atomic number, the atomic 5. Draw a Bohr diagram for sil	mass, and	Table, and ad the ion cl	1
Jse sentences, formulas or diage 4. Look up magnesium in the atomic number, the atomic 5. Draw a Bohr diagram for sil	mass, and	Table, and ad the ion cl	1

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Unit B Quiz (continued)

- 27. Write the names of the following compounds: (a) Na₂CO₃_____

 - (b) NH₄Cl _____
 - (c) FePO₄ ______

 - (d) PbO₂ _____
- (e) $Cr_2(CO_3)_3$ 28. Write the formula for each of the following compounds:
 - (a) ammonium hydroxide _____
 - (b) magnesium hydrogen sulfide _____
 - (c) iron(III) dichromate _____
 - (d) potassium chloride _____
- (e) tin(II) oxide _____ 29. Magnesium sulfide does not dissolve easily in water. Predict the solubility of calcium
- 30. List the members of the alkali metals chemical family, and give three distinguishing