

M. Man	CHAPTER	Name:	Da	ie:	Gipte Care
Name:	Date:5	Chapter 5 Quiz (continued)			
Chapter 5 Quiz		Part C: Multiple Choice			
Part A: Matching		Circle the letter beside the answer that best co	impletes the stat	ement or answ	ers the
1. Match the term with the appr	copriate definition.	question.  9. Which of the following is not a physical	property?		
A. evaporation	(a) macroscopic changes only, particles stay the same	(a) state (b) density (c) ductility (d)			
B. ductile	(b) makes frost	10. Which of the following geological proce		ally created?	
C. mass	(c) can be separated using physical properties	(a) erosion of a riverbank	and the second	of rock by ice	
D. solid	(d) non-metals do not have this property	(b) flow of molten lava		of limestone	
E. chemical change	(e) new substances are produced	<ol> <li>The 787 is a new airliner. Much of it is n think is the primary combination of pro</li> </ol>	nade of carbon perties that mak	nore paneis. v te this a good	choice?
B F. deposition	(f) density multiplied by volume	(a) flammable and low density	(c) low densi	ity and high st	trength
G. boiling point	(g) creates water vapour from liquid	(b) high density and malleable	., .	sity and flexib	•
H. volume	(h) same temperature as condensation point	<ul><li>12. Which property of plastic makes it useful</li><li>(a) is brittle</li></ul>		r pots and par conduct elect:	
I. physical change	(i) space something occupies	(b) conducts heat poorly	(d) has high		ticity wen
	(j) state with least particle movement	3. Giselle buys a ring and wants to find of gold alloy it is. She measures its	what type volume	Gold (k)	Density (g/cm³)
Part B: Completion		using a graduated cylinder and find		10	11.4
Complete each sentence.		cm <sup>3</sup> . Then she measures its mass and to be 29.5 g. Which alloy is it likely to be		18	15.5
	ool" solid and a "hot" solid is that the particles vibrate he cool solid.	table to answer the question.		24	19.3
<ul> <li>3. The difference between a solid and a liquid at the same temperature is that the particles of the liquid can move</li></ul>		(a) 10k (b) 14k (c) 18k (d) 24k  14. A particle is vibrating, it is able to slip b  The particle must be a part of a  (a) solid (b) liquid (c) plasma (d) ga  15. Snow and hail are formed by which two  (a) deposition and solidification (b) deposition and evaporation  16. Davy Lamps were used by coalminers lamps because their flame was surroun flame from igniting any explosive coal gas (a) The screen prevented any gas from g	different proce (c) condensa (d) melting a of the 19th cer ded by a coppe gas. How did the getting to the fla flame to a ten	sses? und solidificat ntury. They w or metal screen e lamp work? nme.	ooration rion rere called safety n to prevent the
		(d) The gas was not flammable.	Ι.		

Name: Date:
Chapter 5 Quiz (continued)
Part D: Short Answer
Use complete sentences or diagrams to answer each question.
17. James accidentally spills two containers, mixing their contents. He checks and finds that one contained salt crystals, while the other contained powdered sand. Describe a method that he might use to separate the two mixtures without losing any of either
-dissolve salt in water, Strain sand
evaporate the water away.
18. Explain how pouring water on a fire puts out the fire in more than one way.
- Water cools fire initially as it
- cools chemical below ignition temperature
19. Using diagrams, describe what happens to a gas as it is rapidly cooled to directly form a crystalline solid such as frost.
20. Describe the properties of diamonds that make them so valuable as
(a) gemstones tinternal reflection
(b) industrial cutting stones

& Check Your Answers!!!

Name: MS. V	Date:	Name:	Date:
Chapter 6 Quiz			
Part A: Matching		Chapter 6 Quiz (continued	1)
1. Match the word or syn	nbol with the appropriate definition.	5. Which element is represented b	
A. Hg	(a) developed symbols for the elements	(a) technetium (b) terbium	(c) tellurium (d) tungsten
B. metalloid	(b) the majority of known elements	6. Which symbol represents the ele	( )
C. W	(c) first noble gas discovered	(a) Co (b) Cu	(c) Cr (d) C
O. element	(d) elements combined in a specific ratio	7. Which symbol represents the el	
E. Ar	(e) tungsten	(a) B (b) Bo	(c) Br (d) Bn
F. Mendeleev	(f) semiconductor	8. Which of the following is not a	
G. metals		(a) shiny lustre (b) good heat conductivity	(c) very dense
	(g) repeating	, , ,	(d) prevents electrical flow is is most important in the manufacture of computers
H. compound	(h) symbol based on its German name	and microprocessors?	s is most important in the mandracture of computers
J. I. periodic	(i) group of elements with the most gases	(a) metals (b) metalloids	s (c) non-metals (d) all are used
J. Berzelius	(j) was thought to be an element but is a mixture	10. The element whose name mean	January Company of the Company of th
L. air	(k) believed in a deeper structure of matter	(a) Hg (b) Pb	(c) Na
L. non-metals	(l) the goal of the alchemists		proportions contained in acetaminophen, if its
<b>_</b> M. Au	(m) the only liquid metal	formula is C <sub>8</sub> H <sub>9</sub> NO <sub>2</sub>	ogen, 1 part nitrogen, 2 parts oxygen
Part B: Multiple Choice		7	ogen, 2 parts nitrogen, 2 parts oxygen
Circle the letter beside the answer that best completes the statement or answers the question.		(c) 8 parts carbon, 9 parts hydr	ogen, 12 parts nickel, 2 parts oxygen ogen, 1 part nitrogen, 2 parts oxygen
	of the ancient Greeks, what would they say the substances in	12. Which of the following is a nob	le gas?
the world were?	(A)	(a) xenon (b) carbon di	(, , )
(a) mixtures and com (b) elements and com		•	be split up by chemical reaction is called
3. Which are the four Gr	*	(a) a mixture (b) an elemen	* * * * * * * * * * * * * * * * * * * *
(a) air, water, wood, a		14. Why were the noble gases the la	
(b) earth, water, fire, and sulfur (d) wood, fire, air, and water		(a) They were created by hum:	
4. Which element is represented by the symbol Po?		(b) They do not react naturally (c) They do not occur naturally	
(a) polonium	(c) phosphorus	(d) They were trapped in other	
(b) plutonium	(d) potassium		

Name: Date:
Chapter 6 Quiz (continued)
Part C: Completion Complete each sentence.  15. A non-metal that is liquid at room temperature is  16. Mendeleev arranged his elements first in order of
18. Which of the properties of metals make them a suitable material to be used to transmit electricity?  19. Ralph Cramden discovers a new element and is given the opportunity to name the new metal. He decides to call it cramdenite.
(a) What are all the possible symbols he could choose using Berzelius's system?
(b) Choose one of these symbols that would be acceptable to the chemistry community. Cm or Ch (all others are taken).
20. Mendeleev left several gaps in his Periodic Table.  (a) Name an element that now fills one of those gaps. Scandium, germanium, gallium  (b) Suggest why Mendeleev left these gaps.  Ne was confident that the family  properties were indicative of proper  placement of the elements.

## \* Check Your Answers!

Name: MS. WOOD	Date:	Name:	Date:	
Chapter 7 Quiz				
Part A: Modified True/False		Chapter 7 Quiz (contin	uea)	
	lse. If false, change the underlined word or tes that the atom is like a raisin bun, with stributed throughout a positive mass.	charge of the element is then (a) 2+ (b) 3-  12. Elements in the last column	t (c) 2– n of the Periodic Table do not re	
nucleus		(c) They have a full outer e	egative ion charge are beside ther lectron shell as ions.	
4. Positive ions are atoms that have ios	ecicetions to empty their outer exection shen.	Number of protons	Number of neutrons	
		(a) 14	28	
Part B: Completion		(b) 28	14	
Complete the sentence.		(c) 14	14	
to to to to to to to	comparing the number of electrons in the ion	(d) 14	14	
According to the Bohr theory, metals a by the process of electron transfer.	and non-metals form 10nic bond 5	positive charge was first properties of the provided (a) Rutherford (b) and the provided (b) are the provided (c) Indicate the provided (d) and the provided (d) are the provided	Bohr (c) Thomson c compounds do not have molecommed between the atoms of an it or in solution, the positive and r	cul on neg
9. In terms of the structure of the atom, the	ne number of neutrons	Part D: Short Answer		
(a) determines the ion charge (b) contributes to the mass	(c) determines the atomic number (d) contributes to the proton number	Use complete sentences or dia 16. Describe what happens to	grams to answer each question. the electrons when a non-metal t	for
10. According to the Bohr theory, the size	- · · · ·	non-metals	mixt dain PLP	7
(a) the number of protons, neutrons, a (b) the size of the outer electron shell (c) the size of the nucleus (d) the number of protons compared	and electrons in the nucleus	in order valence:	to Obtain shell when	<u>1</u>
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Name:		Date:		potentiamentald
Chapter	7 Quiz (continued)			
		protons, 15 neutrons, and	10 electrons. The ion	
(a) 2+	of the element is therefore (b) 3+	(c) 2	(d) 3–	
	\ \ /	e Periodic Table do not rea	` '	
	ey do not have enough elec		•	
		ion charge are beside them	<b>l</b> .	
The state of the s	ey have a full outer electror ey have a full outer electror			
13. Which	of the following rows repres	sents a correct number of pr	otons, electrons, and	
neutron	s for an ion?			
	Number of protons	Number of neutrons	Number of electrons	
(a)	14	28	32	
(b)	14	14	18	
(d)	14	14	14	
	neory that the atom has a m we charge was first proposed	acleus containing most of the	he mass and all of the	
J. January	therford (b) Bohr	(c) Thomson	(d) Dalton	
15. It is co	orrect to say that ionic com	pounds do not have molect	ales because	
AND MARKET SERVICE		between the atoms of an io	•	
	Then liquid, gaseous, or in s idependently of one anothe	solution, the positive and ne	egative ions can move	
(c) Ionic compounds are elements. Elements are found as atoms, not molecules.				
(d) Molecules are only formed from the combination of metals and non-metals.				
Part D: Short Answer				
Use complete sentences or diagrams to answer each question.  16. Describe what happens to the electrons when a non-metal forms an ion.				
To. Descri	be what nappens to the cie	at de non netario	<del>2</del>	
<u>-40</u>	N-MOTALS MU	a dain the	Jrons	
In order to volous a true				
valence shell, when they are				
	TONS	thou are	Negative	1DYY
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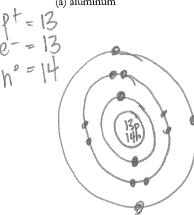
## Chapter 7 Quiz (continued).

18. In terms of the Bohr atomic theory, explain why sodium is more reactive than magnesium.

Sodium	has Le	in its	valence
Shell	and wil	il react vi	DIENTLY
10 00		ln(0) $ln(0)$	
and	have o	L full V	avence shell.
Mah	as de	in its	valence shell.
Vwh	ich are	harder	to remove.

19. Draw the Bohr diagram for

(a) aluminum



(b) an oxygen ion.

