## Properties of Atoms and the Periodic Table

## Part A. Vocabulary Review

**Directions:** On the space at the left, write the term that correctly completes each statement. Use each term once.

-metals_	_isotopes—	average ato	mic-mass-	ologies I.
-groups-	-metalloids-	transition elements		electron cloud
electrons	nucleus	mass-nu		atomic number
chemical-sym	pol ar	ıarks		-periods
One harral C. and	•			dic table
<u>Onemical Symb</u> <u>Periods</u>	1. A capital letter or a that∙is used to repr	combination of esent an element	f a capital lett t is called a(n	er and a small letter
Α	2. The horizontal row	s of elements are	e called	· — <u>——</u> -
Mass	3. An average of the n an element is the	nasses of all the i	sotopes that	occur in nature for
- Grovps	4. Vertical columns of	<del>-</del>	lled	
Flements	5. Elements in the mic called the	ldle of the perio	dic table, gro	ups 4 through 7, are
Atomic #	<b>6.</b> The number of prot	ons in an atom i	is the	
NUCLONG	7. Protons and neutror them.	ns can be subdivi	ided into	by colliding
NVCHENS	8. The center of an atom the	m where protons	s and neutron	ns are located is
Mass #	9. A total count of the	neutrons and pro	otons in an at	tom is the
1000000	<ol><li>Atoms of the same el are</li></ol>	ement but with	different nun	nbers of neutrons
Metalloids 12	. Elements that are foun	d on the left side	of the period	ic table are
12	. Elements that have so	me properties o	f both metals	and nonmetals
LIEOTYONS 13	The particles that mo charge are	ve about the nuc	leus and hav	e a negative
21001YUY1CIWU 14	The region around the	nucleus occupi	ad has also	
Periodic Table 15.	A chart that shows the	classification of	elements is c	alled the

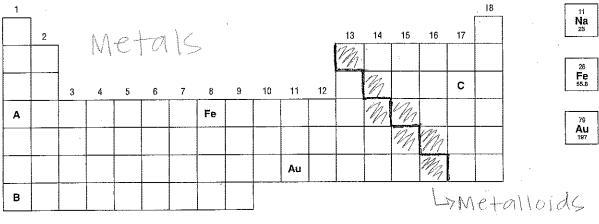
## Chapter Review (continued)

## Part B. Concept Review

**Directions:** Complete the table below by writing the correct information in the blank spaces.

Element	Chemical symbol	Atomic number	Number of protons	Number of neutrons	Mass number
1. Sodium	NA	11	11	12	23
2. Carbon	С	V	6	6	12
3. IVON	Fe	26	26	30	56
4. Sulfur	S	16	IV	16	32
5. Nitrogen	N	7	7 .	COLLOWS ST	14
6. Oxygen	0	8	8	8	10
7. Helium	He	2	2	2	4
8. Chlorine-35	Cl	17	17	10	35
9. Copper	Cu	29	29	35	W
10. Chlorine-37	Cl		17	20	37

**Directions:** Refer to the periodic table below and the boxes at the right of the table to answer questions 11-15.



- 11. Which element has a greater atomic mass, A or B?
  - 12. Which element is a metal, B or C?
- Metal 13. In which group is gold? 65.8
  - 14. What is the average atomic mass of iron?
- 15. What is the atomic number of sodium?

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