## THE PERIODIC TABLE: ORGANIZING THE ELEMENTS SECTION REVIEW

## **Objectives**

- Describe the origin of the periodic table
- Identify the position of groups, periods, and the transition metals in the periodic table

## **Key Terms**

- periodic table
- periods
- periodic law
- group
- representative elements
- metals
- alkali metals
- alkaline earth metals
- transition metals
- inner transition metals
- nonmetals
- halogens
- noble gases
- metalloids

## Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

The periodic table organizes the elements into vertical1	1
and horizontal in order of increasing 3 The table is	2
constructed so that elements that have similar chemical properties	3
are in the same4 The elements in Groups 1A through 7A are	4
called the5 The6 make up Group 0. The elements in	5
Groups 2A and 3A are interrupted in periods 4 and 5 by the	6
and in the periods 6 and 7 by the8 The Group 1A elements	7
are called the, and the Group 2A elements are called the	8
The nonmetals of are called the halogens.	9
Elements with properties that are intermediate between those of	10
metals and nonmetals are called <u>12</u> .	11
	12

Name _				Class	Date		
Part B	Tru	e-False					
Classify	each	of these statements as always true, AT; som etimes true, ST; or never true, NT.					
	_ 13.	In his periodic table, Mendeleev arranged the elements in ascending order of atomic number.					
	_ 14.	The representative elements are the Group Aelements.					
	_ 15.	The transition metals and inner transition metals are the Group B elements.					
	_ 16.	The element in Group 4A, period 3, is gallium.					
Part (	Mat	tching					
Match e	Match each description in Column B to the correct term in Column A						
		Column A		Column B			
	_ 17.	periodic table	a.	a vertical column of elements in the	he periodic table		
	_ 18.	periods	b.	the Group 0 elements			
	_ 19.	group	c.	The Group 1A elements			
	_ 20.	representative elements	d.	a portion of the Group B elements	3		
	_ 21.	alkali metals	e.	an arrangement of elements according their properties	rding to similarities in		
	_ 22.	transition metals	f.	Group Aelements			
-	_ 23.	halogens	g.	the horizontal rows of the periodic	c table		
	_ 24.	noble gases	h.	the Group 7A elements			
	-	estions and Problems allowing questions in the space	ce p	rovided.			
	the e	-	hetl	ner each is a metal, nonmetal, or			
<b>26.</b> List	thre	e properties of metals.					