Name _____ Date _____ Class _____

SECTION 3 Reinforcement

The Periodic Table

Directions: *You will need a scientist's patience to find the names of the 70 elements hidden in the grid. The lanthanides and the actinides have been excluded. The same letters may appear in more than one element name. Circle the letters that correctly spell the name of an element.*

A Y M R
R N U E
G N T N
O O S I

A S S M
B L U E
E I R G
T T O S

N C A D M I U M N
A I N O E O B O C
I L O I J E N L H
M I D N Z E L Y O
W S A Y X M D B Z
L C R N U R B D D
E J K I O R L E M
K N D G A R T N R

D E F L U O R I N E H L H U
G H P B R O M I N E D A P L
K L M U I N E H T U R C S P
P M Q R T S C M U V H E O H
Y D U R X E U A S L B L H U
P E N I T I F G O H O I P R
O E N O D V P R D N L Q T H
T H H N I A I S I I A A H E

C N E D S T I U H Y A H E M P E R B E N I T A T S A I A O G N L U U D N I A N
I N I O B I U M O C L E I D E T A N A B E L E G O S C F F E A M L M T T T L I
N U H T N E E L D E U L M B O R O N M L E N N T S S I S L N D L I A G H H L U
M N O B R A C M I S M U I N I T C A L C I U M M U I N O C R I Z L T P A S I M
O R M M M O U T U E I D B U P U T U N E T T V E R U E E O T U U H I E N I U L
E S U L U N G C M N N R M Y M M R O R N T A H T U M S I B I M N M I U U L M N
G M I I I I E E A V U E R M U I R T T Y N T Y I F I R I A I R I D I U M V V E
R U N T S E C M N B M K L I U E M E C H R O M I U M A N L T S U O X Y G E N M
E I A H E L R N I C E M N M D E S E N A G N A M A M P S T R O N T I U M R A N
P L T I N E A D A N B E
P E I U G M I U A R L A
O H T M A U D R M E F D
C M U A M U I M S O L D

Directions: *Complete the following paragraphs about the periodic table by writing the correct term in each blank.*

In the modern periodic table, elements are listed by increasing **1.** _____. Each box represents a(n) **2.** _____. A box contains the name, atomic number, **3.** _____, and **4.** _____ for the element.

Vertical columns in the table are called **5.** _____. Most elements in a column have the same number of **6.** _____ in the outer energy level and tend to have similar **7.** _____.

Horizontal rows in the table are called **8.** _____. The elements on the left side of the table are **9.** _____. Groups 3–12 contain metals known as **10.** _____. Elements on the right side are **11.** _____.

Meeting Individual Needs

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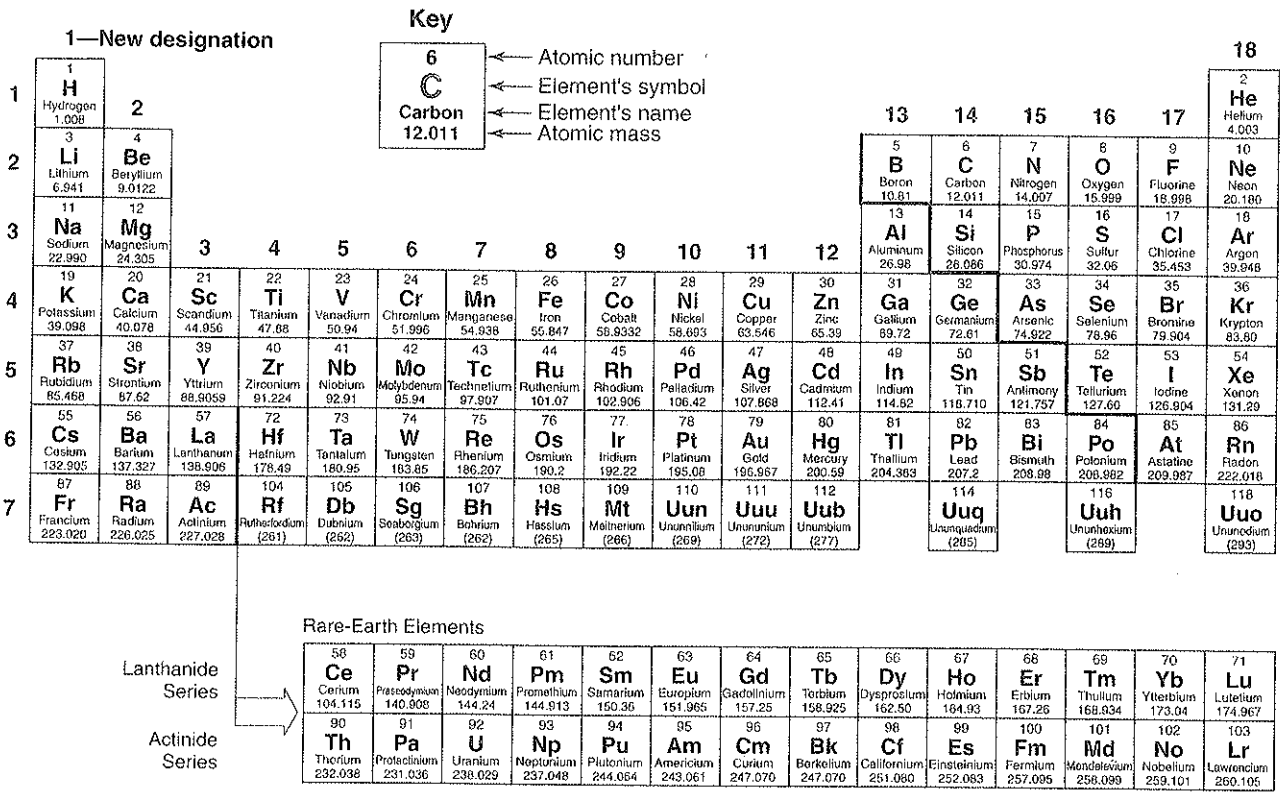
Name Date Class

Directed Reading for Content Mastery

Section 3 • The Periodic Table

Periodic Table of the Elements



Directions: *Use the periodic table above to answer the following questions.*

1. List two types of information that are given in each box of this periodic table.

   a. _____

   b. _____

2. Where are the metals located in the periodic table? _____

3. Where are the nonmetals located? _____

4. What are the elements in Groups 3 through 12 called? _____

5. What are the elements called that are next to the stairstep-shaped line on the right side of the table? _____

6. What do we call the letter or letters that represent an element?

   _____

7. How many elements are included in the modern periodic table? _____

8. What name is given to the elements in Group 18? _____

Meeting Individual Needs

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