TEACHING TRANSPARENCY WORKSHEET

18

The Periodic Table

Use with Chapter 6, Section 6.1

	11 -7
1.	How many elements are listed in the periodic table?
2.	What is the atomic number of selenium?
3.	What is the symbol for palladium? Pl
4.	What is the atomic mass of strontium? 87.62 Ame
5.	How are elements that are gases at room temperature designated in the periodic table?
	Their Boxes contain red Bulloon, or Green Color
6.	How many columns of elements does the periodic table contain? 18
7.	What is another name for a column of elements?
	group or family
8.	How many rows of elements does the periodic table contain?
9.	What is another name for a row of elements?
10.	Which period contains the least number of elements? Period 1
	What element is found in period 4, group 7?
	How are metals designated in the periodic table?
	Their Boxes are tinted Blue
13.	How are metalloids designated in the periodic table?
	Their Boxes are tinted Green
14.	How are nonmetals designated in the periodic table?
	Their Boxes are tinted yellow
15.	What is the name of the group 1 elements (excluding hydrogen)? Alkali metals
	What is the name of the group 2 elements? Alkaline earth metals
	What is the name of the group 17 elements? HAICAEAS
	What is the name of the group 18 elements? Noble 9 ASES
19.	What can be said about the electron configurations of all the elements in a group?

WATE SKILLS TRANSPARENCY WORKSHEET

6

Using the Periodic Table

Use with Chapter 6, Section 6.2

1. Identify the number of valence electrons in each of the following elements.

a. Ne _____8

e. 0 6

b. K _____

f. CI 7

c. B ____3

g. P _____5

d. Mg ______**Z**_____

h. Si _____

2. Identify the energy level of the valence electrons in each of the following elements.

a. Br 4th energy Level

b. N 2" energy Level

c. Ra 7th energy Level

d. H | 3+ energy Level

e. Ar 3rd energy Level

f. I 5th energy Level

3. Use the periodic table to write the electron configurations (using noble gas notation) for each of the following elements.

a. Li LHe IZO

b. F ____ [He] 2522P5

c. As ______ [Ar] 452 3110 4P3

e. Bi ______ [xe] 6524f # 5d 6 p3

4. Determine the group, period, and block of the elements having the following electron configurations.

a. 1s²

5

c. [Ar]4s¹ ______ 4 5

d. [Kr]5s²4d¹ _______ 3

e. $[Xe]6s^24f^{14}5d^{10}6p^4$ 6

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