

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

## **Chemistry**

### **Quiz #1-5: Periodic Table, Groups & Trends PRACTICE**

*For each of the following questions or statements, select the most appropriate response and write its letter on the answer line:*

- \_\_\_\_\_ 1. Which of the following categories comprises the majority of the elements?  
A. gases  
B. liquids  
C. metalloids  
D. metals  
E. nonmetals
- \_\_\_\_\_ 2. What is each vertical column of elements in the periodic table called?  
A. group  
B. period  
C. row  
D. zig-zag
- \_\_\_\_\_ 3. A mystery element "Q" is a nonlustrous solid that is brittle and a poor conductor of electricity. To which category of elements does it most likely belong?  
A. metalloids  
B. metals  
C. nonmetals  
D. semimetals  
E. transition metals
- \_\_\_\_\_ 4. What are the Group A elements known as?  
A. representative elements  
B. transition elements  
C. inner transition elements  
D. metallic elements
- \_\_\_\_\_ 5. The first periodic table was arranged in order of increasing atomic:  
A. mass  
B. charge  
C. number  
D. radius
- \_\_\_\_\_ 6. The periodic law states that there is a periodic repetition of the physical and chemical properties of elements:  
A. if only metals are considered  
B. when they are arranged in order of increasing atomic mass  
C. when they are arranged in order of increasing atomic radii  
D. when they are arranged in order of increasing atomic number

- \_\_\_\_\_ 7. Which of the following elements is in the same family as phosphorus?
- A. carbon
  - B. magnesium
  - C. nitrogen
  - D. oxygen
- \_\_\_\_\_ 8. Which subatomic particle plays the greatest role in determining the physical and chemical properties of an element?
- A. electron
  - B. neutron
  - C. proton
  - D. quark
- \_\_\_\_\_ 9. Which of the following has the smallest atomic radius?
- A. iodine
  - B. fluorine
  - C. chlorine
  - D. bromine
- \_\_\_\_\_ 10. What term is used to describe an atom's attraction to electrons when it is chemically combined with another element?
- A. electron configuration
  - B. electronegativity
  - C. electrolysis
  - D. electrochemical attraction