

### **III. Assessment & Evaluation**

#### **A. Pre-Test Questions**

##### Basic Knowledge Evaluation

1. What is your experience with the Periodic Table?
  - A) What is a Periodic Table?
  - B) I think I've seen one.
  - C) I have used one before.
  - D) I am confident that I fully understand the significance of the Periodic Table.
2. What is a Periodic Table?
  - A) A list of random elements
  - B) A chart of all known elements
  - C) An arrangement of elements based on increasing atomic number
  - D) An arrangement of elements based on atomic number and reactivity

##### Inquiry A Evaluation

3. The Periodic Table is organized by:
  - A) Atomic Size
  - B) Atomic Weight
  - C) Reactivity
  - D) Color
  - E) Metals and Non-metals
4. Elements are in groups based on:
  - A) their atomic size.
  - B) their number of protons.
  - C) their similar reactivities.
  - D) their relative color.
  - E) the size of their electrons.

**Inquiry B Evaluation**

5. What other elements would react similarly to O?
- A) Se
  - B) Po
  - C) S
  - D) Te
  - E) All of the above
6. Which of the following elements would not combine to make a compound with Magnesium?
- A) F
  - B) Ca
  - C) Cl
  - D) O

**Inquiry C Evaluation**

7. The correct chemical formula for Calcium chloride would be?
- A) CaCl
  - B) CaCl<sub>2</sub>
  - C) CaCl<sub>3</sub>
  - D) CaCl<sub>4</sub>
  - E) That can not be determined from the information given
8. If you combined potassium with chlorine, how many potassium atoms would you need to combine with each atom of chlorine?
- A) 1
  - B) 2
  - C) 3
  - D) 4
  - E) 5
9. The correct chemical formula for Beryllium oxide would be:
- A) Be
  - B) BeO
  - C) BeO<sub>2</sub>
  - D) Be<sub>2</sub>O
  - E) Be<sub>2</sub>O<sub>3</sub>

## **B. Post-Test Questions**

### Basic Knowledge Evaluation

1. What is your experience with the Periodic Table?
  - A) What is a Periodic Table?
  - B) I think I've seen one.
  - C) I have used one before.
  - D) I am confident that I fully understand the significance of the Periodic Table.
2. What is a Periodic Table?
  - A) A list of random elements
  - B) A chart of all known elements
  - C) An arrangement of elements based on increasing atomic number
  - D) An arrangement of elements based on atomic number and reactivity

### Inquiry A Evaluation

3. The Periodic Table is organized by:
  - A) Atomic Size
  - B) Atomic Weight
  - C) Reactivity
  - D) Color
  - E) Metals and Non-metals
4. Elements are in groups based on:
  - A) their atomic size.
  - B) their number of protons.
  - C) their similar reactivities.
  - D) their relative color.
  - E) the size of their electrons.

### Inquiry B Evaluation

5. What other elements would react similarly to C?

- A) Se
- B) Si
- C) S
- D) N
- E) All of the above

6. Which of the following elements would not combine to make a compound with Li?

- A) F
- B) Na
- C) Cl
- D) O

### Inquiry C Evaluation

7. The correct chemical formula for Potassium bromide would be?

- A) KBr
- B)  $\text{KBr}_2$
- C)  $\text{KBr}_3$
- D)  $\text{K}_2\text{Br}$
- E) That can not be determined from the information given

8. If you combined sodium with oxygen, how many sodium atoms would you need to combine with each atom of oxygen?

- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

9. The correct chemical formula for aluminum fluoride would be:

- A) Al
- B) AlF
- C)  $\text{AlF}_2$
- D)  $\text{AlF}_3$
- E)  $\text{Al}_2\text{F}_3$