

Student Name: _____

Date: _____

Section 1: Multiple Choice (25 pts)

1. What is the primary focus of Chemistry: Elements & Periodic Table?

- A) Math
- B) Science concepts
- C) Art
- D) History

2. Which best describes the scientific method?

- A) Guess and check
- B) Observe, hypothesize, experiment, conclude
- C) Only experiments
- D) Reading textbooks

3. Data should be recorded:

- A) After the experiment
- B) During observations
- C) From memory
- D) From the teacher

4. A controlled experiment has:

- A) No variables
- B) One independent variable
- C) All variables changed
- D) Random procedures

5. Evidence in science must be:

- A) Repeated and testable
- B) Perfect
- C) From one source
- D) Guessed

6. In this unit on Chemistry: Elements & Periodic Table, we learned:

- A) Nothing new
- B) Key concepts in science
- C) Only math
- D) History facts

7. Lab safety includes:

- A) Running near chemicals
- B) Wearing goggles
- C) Tasting unknowns
- D) Working alone always

8. The dependent variable is:

- A) What you change
- B) What stays the same
- C) What you measure
- D) Your hypothesis

9. A graph helps scientists:

- A) Guess results
- B) Visualize and interpret data
- C) Avoid calculations
- D) Skip analysis

10. Conservation of mass means:

- A) Mass is created
- B) Mass disappears
- C) Total mass stays constant
- D) Mass changes form

Section 2: Matching (10 pts)

1. Atoms & Periodic Table

2. Compounds & Mixtures

3. Chemical Reactions

4. Acids, Bases & pH

5. Conclusion

A. What we study in Unit 1

B. The variable you change

C. What stays the same

D. What you measure

E. Connects data to hypothesis

Section 3: Show Your Work (10 pts)

1. Describe the most important concept from the Chemistry: Elements & Periodic Table unit in your own words.

2. Design a simple experiment related to Chemistry: Elements & Periodic Table. Include IV, DV, and one constant.

3. Explain what you would do if your results did NOT support your hypothesis.

Multiple Choice:

1. B
2. B
3. B
4. B
5. A
6. B
7. B
8. C
9. B
10. C