Periodic Table Practice Worksheet

Name: _____ Class: _____ Date: _____ Score: ____ / 25

A. Basics

1. What is the atomic number of **Na**? _____
2. What is the symbol for **oxygen**? _____
3. Which element has atomic number **17**? _____
4. How many protons does **Mg** have? _____
5. How many electrons does a neutral **Cl** atom have? _____

B. Groups & Periods

6. What group contains the **alkali metals**? _____
7. What group contains the **noble gases**? _____
8. Which period contains **K**? _____
9. Are **F, Cl, and Br** in the same group or period? _____
10. Name one element in **Group 2**: _____

C. Classifying Elements

Write **metal, nonmetal, or metalloid**.

11. Fe → _____
12. Si → _____
13. S → _____
14. Al → _____
15. B → _____

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D. Periodic Trends

16. Across a period, atomic radius generally **increases / decreases**.
17. Down a group, atomic radius generally **increases / decreases**.
18. Which is more reactive: **Na or K**? _____
19. Which has greater electronegativity: **F or Cl**? _____
20. Which has the larger atomic radius: **Li or Cs**? _____

E. Challenge

21. An element has **2 valence electrons** and is in **Period 3**. Identify it. _____
22. An element has atomic number **35**. Give its symbol and group. _____
23. Which element is in the same group as **O** and has atomic number 16? _____
24. An atom has **19 protons**. What element is it, and how many electrons does its neutral atom have?
    _____
25. Explain why elements in the same group often have similar chemical properties.

_____

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