

Periodic Table - Practice Worksheet

Name: _____ Date: _____

Instructions: Use a periodic table to answer each question. Show your reasoning where asked. Questions progress from basic recall to applied thinking.

1. What is the chemical symbol for Gold?

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2. What is the atomic number of Carbon?

.....

3. Which element has the symbol 'Na' and what is its atomic mass (rounded to the nearest whole number)?

.....

4. How many protons does an atom of Oxygen have?

.....

5. Name the element in Period 2, Group 17 (VIIA).

.....

6. Which element has atomic number 26? State its symbol and classify it as metal, nonmetal, or metalloid.

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7. List the elements in Group 1 (IA) from Period 2 through Period 5 (give name and symbol for each).

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8. An element has 17 protons and its mass number is 35. How many neutrons does it have? Name the element.

.....

9. Arrange these elements in order of increasing atomic number: Neon, Helium, Argon, Krypton. What pattern do you notice about their group?

.....

10. Element X is in Period 3, Group 14 (IVA). It is a metalloid widely used in computer chips. Identify it and give its atomic number and atomic mass.

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Answer Key

1. Au

2. 6

3. Sodium (Na); atomic mass = 23

4. 8 protons

5. Fluorine (F)

6. Iron (Fe); metal

7. Lithium (Li), Sodium (Na), Potassium (K), Rubidium (Rb)

8. $35 - 17 = 18$ neutrons; Chlorine (Cl)

9. He (2), Ne (10), Ar (18), Kr (36) - all are in Group 18 (noble gases)

10. Silicon (Si); atomic number 14; atomic mass ~28

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