

PS Chemistry

Common Elements Worksheet

Chapter 17

Name _____

Get familiar with a few of the elements on the Periodic Table of Elements.

Directions: Complete the following table using the Periodic Table of Elements as a reference.

| Element | Symbol | Atomic Number | Mass Number | Number of Protons | Number of Neutrons | Number of Electrons |
|-----------|--------|---------------|-------------|-------------------|--------------------|---------------------|
| Silver | | | | | | |
| Calcium | | | | | | |
| Sodium | | | | | | |
| Aluminum | | | | | | |
| Zinc | | | | | | |
| Magnesium | | | | | | |
| Hydrogen | | | | | | |
| Carbon | | | | | | |
| Oxygen | | | | | | |
| Nitrogen | | | | | | |
| Lead | | | | | | |
| Gold | | | | | | |
| Iron | | | | | | |
| Chlorine | | | | | | |
| Sulfur | | | | | | |
| Fluorine | | | | | | |
| Silicon | | | | | | |

Structure of the Atom

Directions: Answer the following questions on the lines provided.

1. How is the chemical symbol of an element determined?

2. What are atoms composed of?

3. Are electrons, protons, or neutrons the smallest particles? If not, what are?

4. How many types of quarks are there? Name one of them.

5. Why do scientists use models to study atoms?

6. Why has the atomic model changed over time?

7. Why is the current atomic model called the "Electron Cloud Model"?

Directions: Match the term with the definition.

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|-------------------|--|
| _____ 8. electron | a. positively charged particle |
| _____ 9. neutron | b. negatively charged particle |
| _____ 10. nucleus | c. neutral particle |
| _____ 11. proton | d. smaller particles that make up protons and neutrons |
| _____ 12. quark | e. positively charged center of an atom |