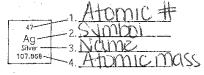
## Organizing the Elements

## Understanding Main Ideas

The diagram at the right is a square from the periodic rable. Label the four facts shown about each element.

Answer the following on a separate sheet of paper.



- 5. What does each of the facts shown above tell you about the element? Properties
- 6. In what order did Mendeleev arrange the elements in the periodic table? Incr 7. What do elements in the same column in the periodic table have in common?
- 8. What happens to the number of valence electrons as you move from left to right in the periodic table? Increuses
- 9. What can you predict about an element from its position in the periodic

## Building Vocabulary

From the list below, choose the term that best completes each sentence.

- atomic mass unit (amu)
- electron nucleus
- family period

neutron proton

- periodic table
- valence electron
- 10. A(n) VOICHOC PICTOS involved in the transfer or sharing of electrons.
- is a positively charged particle in the nucleus.
- is its row in the periodic table. 12. An element's
- 13. The central core of an atom is called the <u>NUCLEUS</u>
- 14. A(n) CIPCTION carries a negative electrical charge, and is located outside an atom's central core.
- 15. Mendeleev was the first to arrange elements according to their properties in a(n) unmuch deriodic toble.
- or tamil 16. Elements in a(n) table have similar characteristics.
- 17. A(n) **neutron** is a particle in the nucleus that has no charge.
- to measure the mass of the particles 18. Scientists use the within the atom.

Chemical Building Blocks

Teaching Resources