



Note-taking Worksheet

Atomic Structure and Chemical Bonds

Section 1 Why do atoms combine?

- A. The _____, containing protons and neutrons, is at the center of an atom and is surrounded by the _____, an area of space around the _____ where _____ travel.
- _____ have a negative charge and do not travel in well-defined orbits.
 - Each element has a different _____, consisting of a particular number of protons, neutrons, and electrons.
- B. The _____ and _____ of electrons in the electron cloud determines the physical and chemical properties of the element.
- Electrons are arranged in different _____ at different distances from the nucleus.
 - The _____ an energy level is from the nucleus, the more electrons it can hold.
 - Electrons in the level closest to the nucleus have the _____ amount of energy; electrons farthest from the nucleus have the _____ amount of energy.
- C. Data from the _____ can be used to understand energy levels.
- The _____ is the same as the number of protons (or electrons) in an electrically neutral atom.
 - The number of electrons in an element's outermost energy level _____ from left to right across a period.
 - The first energy level is complete with two electrons, and the _____ has two elements.
 - The last element in each of the other _____ has _____ electrons in its outer energy level.
 - Each column in the periodic table contains one element family or group with _____ chemical properties.
 - The _____ in Group 8 do not combine easily with other elements because their energy levels are stable.

Section 1 Reinforcement Structure Of The Atom

Mike Jess



Section 1 Reinforcement Structure Of The Atom:

Chemical Matter Prentice-Hall Staff,1994 Authorized teaching resource in Alberta for senior high science 14 24 1995
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