



## 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.

# Models Of Atom Reinforcement Section 1 Answer

**American Concrete Institute**

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*Techniques and Materials in the Modeling of Reinforced Concrete Structures Under Dynamic Loads*, 1963 **Addison-Wesley Introduction to Physical Science** Michael B. Leyden, 1988 *Glencoe Science*, 2002 **Scientific and Technical Aerospace Reports**, 1992 [Chemical Interactions](#), 2005 **INIS Atomindex**, 1985 *Journal of the American Concrete Institute* American Concrete Institute, 1969 Includes the ACT news letter title varies slightly *International Atomic Energy Agency Publications* International Atomic Energy Agency, 1980 **International Atomic Energy Agency Publications: Catalogue** International Atomic Energy Agency, 1980 **Introduction to Research in Education** Donald Ary, Lucy Cheser Jacobs, Asghar Razavieh, 2002 This book is designed for use in introductory courses in education research which is a standard offering in nearly every graduate program in Schools and Colleges of Education Courses are designed to provide students with an overview of quantitative and qualitative research methods addressing such topics as research designs sample selection data collection experimental research and data analysis **Abstract Journal in Earthquake Engineering**, 1993 *Energy Research Abstracts*, 1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Mining and Metallurgy**, 1922 *Bi-monthly Bulletin of the American Institute of Mining Engineers*, 1922 **Rights of Man** Thomas Paine, 1892

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