

Answers Chemistry Review Packet

1. Organisms are made of the same chemical elements as nonliving things. One important difference is the complexity of organization in living things when compared to nonliving. The atoms of living things are organized into small molecules like sugars, amino acids, fatty acids, and nucleic acids. These small molecules are linked together to form macromolecules, and the macromolecules are organized into larger structures called macromolecular assemblies. Examples of macromolecular assemblies include ribosomes, membranes and chromatin.
2. The six most abundant elements (in decreasing order of abundance) are Oxygen, Carbon, Hydrogen, Nitrogen, Calcium, Phosphorus.

Mnemonic →

Trace elements are those required by organisms in only minute quantities (less than 0.01% of human body weight). These are B, Cr, Co, Cu, F, I, Fe, Mn, Mo, Se, Si, Sn, V, Zn. (Note: It is not necessary to memorize the names or symbols of these trace elements.)

Many trace elements are enzyme cofactors (e.g. Cu, Zn, Mn, Mg, Mo). Other functions include serving as electrolytes (nerve function), in osmotic balance, and in acid-base balance. Check out Table 41.2 Mineral requirements of Humans on page 852 of Campbell (I love that book!). Don't memorize the table, just look at it. It's cool!

3. Atoms have a nucleus at the center which is surrounded by an electron cloud. The electron cloud is organized into a series of seven progressively larger concentric shells (somewhat like an onion).

The ratio of the diameter of the electron cloud to the diameter of the nucleus is

$$\frac{\text{Electron cloud}}{\text{Nucleus}} = \frac{10^{-8} \text{ cm}}{10^{-13} \text{ cm}} = 10^5$$

Thus the diameter of the electron cloud is 100,000 times larger than the diameter of the nucleus.

If the nucleus were as large as a baseball (with a radius of about 3.5 cm), the radius of the electron cloud would be ~2 miles.

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Answers Chemistry Review Packet Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Answers Chemistry Review Packet**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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