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AP Bio Ch 02 - The Chemical Context of Life (Part 1)

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Chapter 2 The Chemical Context of Life This chapter presents basic chemical principles for understanding the chemical context of living organisms, from atomic structure to the nature of chemical bonds and an introduction to chemical equilibrium. These questions focus on elements most important to life or the study of life, including the

The chemical behavior of an atom is determined by the distribution of electrons in the atom's electron shells.

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2) concentration of reactants 3) presence of chemical catalysts (enzymes) 4) temperature

Chapter 2: The Chemical Context of Life This chapter covers the basics that you may have learned in your chemistry class. Whether your teacher goes over this chapter, or assigns it for you to review on your own, the questions that follow should help you focus on the most important points. Concept 2.1 Matter consists of chemical elements in pure form and in combinations called compounds 1.

The Chemical Context of Life

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Chapter 2 The Chemical Context

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Chapter 2: The Chemical Context of Life. A covalent bond between atoms that differ in electronegativity. The shared electrons are pulled closer to the more electronegative atom, making it slightly negative and the other atom slightly positive.

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2. The organism responsible for this pruning is the ant species. This organisms. use formic acid as a herbicide. 3. This chapter focuses on the chemical components that make up all matter. 1. Matter consists of Chemical Elements in Pure Form and in Combination. Called Compounds. 1. Organisms are composed of matter. 2.

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Chapter 02 - The Chemical Context of Life Organisms are composed of matter. An element is a substance that cannot be broken down into other substances by chemical reactions. A compound is a substance consisting of two or more elements in a fixed ratio. Table salt (sodium chloride or NaCl) is a ...

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Chapter 2 - The Chemical Context of Life* *Lecture notes are to be used as a study guide only and do not represent the comprehensive information you will need to know for the exams. A Chemical Connection to Biology There is relevance of chemistry to the study of life. Organisms and their environments are natural systems to

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Chapter 2, The Chemical Context of Life 19 12) Different atomic forms of an element contain the same number of protons but a different number of neutrons.

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3. Elements and Compounds • Matter is made up of elements • An element is a substance that cannot be broken down to other

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• Atoms with more than 2 electrons must have the extra electrons in higher shells. o Lithium, with 3 electrons, has 2 electrons in the first shell and 1 in the second shell. • The second shell can hold up to 8 electrons. o Neon, with 10 total electrons, has 2 in the first shell and 8 in the second, thus filling both shells.

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