

Chemistry Study Guide Chapter 4 - Key

1. Define the following terms: (a) atom, (b) atomic number, (c) mass number, (d) isotopes (give 2 definitions), (e) atomic mass unit (amu), (f) nucleus, (g) spectroscopy, (h) ground state, (i) excited state, (j) atomic mass, (k) quantum leap, (l) photon.

(a) Atom: the smallest particle of an element that still has the element's properties.

(b) Atomic number: the number of protons in the nucleus of an atom.

(c) Mass number: the number of protons plus the number of neutrons in an atom.

(d) Isotopes: Atoms with the same atomic number but different mass numbers or atoms with the same number of protons but a different number of neutrons.

(e) Atomic mass unit (amu): small unit of mass used to measure atoms, subatomic particles, etc.

(f) Nucleus: small, dense, positively charged core of an atom containing protons and neutrons.

(g) Spectroscopy: the study of spectra produced by the excitation of atoms, especially experimental observation of optical spectra used to determine a substance's identity.

(h) Ground state: the state of lowest energy for an atom.

(i) Excited state: any state of higher energy for an atom.

(j) Atomic mass: the weighted average of all the isotopes of an element.

(k) Quantum Leap: change of an electron from one energy state to another within an atom.

(l) Photon: small packets of electromagnetic energy

2. Compare and contrast electrons, protons, and neutrons in terms of mass, charge and location.

PARTICLE	SYMBOL	CHARGE	MASS (amu)	LOCATION
electron	e^-	-1	≈0	orbit nucleus
proton	p^+	+1	≈1	inside nucleus
neutron	n^0	0	≈1	inside nucleus

3. What are the units used to express (a) wavelength, (b) frequency.
(a) any units of length (b) cycles/second or hertz.

4. Compare/contrast x-rays and infrared radiation in terms of their speed, wavelength, frequency and energy.

Both move at the speed of light however x-rays have shorter wavelengths which give them higher frequencies and energies than infrared radiation.

Chapter 4 Chemistry Study Guide Answers

Katherine J. Denniston

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Organic Chemistry, Study Guide and Solutions Manual T. W. Graham Solomons,Craig B. Fryhle,2000 On the cover of this book is a Pacific yew tree found in the ancient forests of the Pacific Northwest The bark of the Pacific yew tree produces Taxol found to be a highly effective drug against ovarian and breast cancer Taxol blocks mitosis during eukaryotic cell division The supply of Taxol from the Pacific yew tree is vanishingly small however A single 100 year old tree provides only about one dose of the drug roughly 300 mg For this reason as well as the spectacular

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Student Study Guide Fundamentals of Chemistry by David E. Goldberg Margaret G. Kimble, 1994 *General Chemistry Study Guide Sixth Edition* Darrell D. Ebbing, 1999

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Study Guide to Chemistry and Life John William Hill, Dorothy M. Feigl, 1978 **Student Study Guide/solutions Manual to Accompany Foundations of Inorganic, Organic, and Biological Chemistry** Katherine J. Denniston, 1995 This student study guide has been written to accompany Foundations of Inorganic Organic and Biological Chemistry by Caret Denniston and Topping It was designed to complement the text not to be used in place of the text Each chapter of the study guide contains the following sections reorganized and expanded set of learning goals concise chapter summary in chapter solved problems list of key terms review problems Preface **Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual** T. W. Graham Solomons, 1996-08-15 A realistic approach to the study of

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