

ANSWER KEY

ATOMS AND ELECTRONS STUDY GUIDE

Learning Goals: (a) (a.1-P.4.1) Explain a two-subshell theory of atomic orbitals (introduce atomic theory) by describing changes in the atomic model over time including those changes that are consistent with experimental evidence. (a.1-P.4.2) Explain the relationship between atomic orbitals (AOs) and orbitals (Orbitals) in terms of probability, nodal structures, radial probability curves and the role of the nucleus in determining the shape of the orbitals. (a.1-P.4.3) Explain the relationship between the shape of the orbitals and their quantum numbers (introduce the concept of quantum numbers) and the relationship between the shape of the orbitals and their quantum numbers (introduce the concept of quantum numbers) and the relationship between the shape of the orbitals and their quantum numbers (introduce the concept of quantum numbers).

ANSWER KEY

Directions: Match the atomic theory selected on the correct card(s).

Model	Atomic Model	Atomic Theory
1	Continuous (a.1-P.4.1)	A. Everything is made of atoms (continuous) (a.1-P.4.1)
2	Discrete (a.1-P.4.2)	B. Matter is made of atoms (discrete) (a.1-P.4.2)
3	Quantum (a.1-P.4.3)	C. Matter is made of atoms (discrete) (a.1-P.4.3)
4	Quantum (a.1-P.4.3)	D. Matter is made of atoms (discrete) (a.1-P.4.3)
5	Discrete (a.1-P.4.2)	E. Matter is made of atoms (discrete) (a.1-P.4.2)
6	Quantum (a.1-P.4.3)	F. Matter is made of atoms (discrete) (a.1-P.4.3)

Directions: Use the periodic table to answer the following questions:

- 1** (a.1-P.4.1) The number of protons equals the number of electrons.
- 2** (a.1-P.4.2) The number of protons equals the number of electrons.
- 3** (a.1-P.4.3) The number of protons equals the number of electrons.

Study Guide Why Atoms Combine Answer Key

Daniel C. Pantaleo



Study Guide Why Atoms Combine Answer Key:

Organic Chemistry Study Guide Robert J. Ouellette, J. David Rawn, 2014-11-04 *Organic Chemistry Study Guide Key Concepts Problems and Solutions* features hundreds of problems from the companion book *Organic Chemistry* and includes solutions for every problem. Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject. Organic chemistry is a constantly evolving field that has great relevance for all scientists, not just chemists. For chemical engineers, understanding the properties of organic molecules and how reactions occur is critically important to understanding the processes in an industrial plant. For biologists and health professionals, it is essential because nearly all of biochemistry springs from organic chemistry. Additionally, all scientists can benefit from improved critical thinking and problem solving skills that are developed from the study of organic chemistry. Organic chemistry, like any skill, is best learned by doing. It is difficult to learn by rote memorization, and true understanding comes only from concentrated reading and working as many problems as possible. In fact, problem sets are the best way to ensure that concepts are not only well understood but can also be applied to real world problems in the work place. Helps readers learn to categorize, analyze, and solve organic chemistry problems at all levels of difficulty. Hundreds of fully worked practice problems, all with solutions. Key concept summaries for every chapter reinforce core content from the companion book. **E3 Chemistry Guided**

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