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Chapter 4 Test Review: Arrangement

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About This Chapter. The Arrangement of Electrons in Atoms chapter of this Holt McDougal Modern Chemistry Companion Course helps students learn the essential lessons associated with how electrons are arranged in atoms. Each of these simple and fun video lessons is about five

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minutes long and is sequenced to align with the Arrangement...

**CHAPTER 4 REVIEW Arrangement of
Electrons in Atoms**

CHAPTER 4 REVIEW Arrangement of
Electrons in Atoms SECTION 3 SHORT
ANSWER Answer the following questions

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in the space provided. 1. State the Pauli exclusion principle, and use it to explain why electrons in the same orbital must have opposite spin states. The Pauli exclusion principle states that no two electrons in an atom may have the

CHEMISTRY CHAPTER 4

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(Arrangement of Electrons)

Accelerated Chemistry 1 Arrangement of
Electrons in Atoms CHAPTER 4

Arrangement of Electrons in Atoms

SECTION 1 The Development of a New
Atomic Model OBJECTIVES 1. Explain
the mathematical relationship among the
speed, wavelength, and frequency of

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electromagnetic radiation. 2.

Chapter Four [Arrangement of Electrons in Atoms]

CHEMISTRY CHAPTER 4.

(Arrangement of Electrons) The lowest energy state of an atom is its ground state. (usually it's the lowest levels) A photon is

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a particle of electromagnetic radiation having zero mass and carrying a quantum of energy. When a photon strikes a atom it gives the atoms more energy.

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CHAPTER 4 REVIEW Arrangement of Electrons in Atoms

100 CHAPTER 4 FIGURE 4 Excited neon

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atoms emit light when electrons in higher energy levels fall back to the ground state or to a lower-energy excited state.

Chapter 4

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Electromagnetic Spectrum: Wavelength

and frequency: Photoelectric effect:

Hydrogen's Line emission spectrum:

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Photon emission and absorption: Electrons accommodated in energy levels and sublevels: Quantum numbers of the first 30 atomic orbitals: Relative energies of orbitals A: Writing electron configurations: Relative energies of orbitals B: Orbital notation for three noble gases: Orbital notation for Argon and

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Potassium: Supplements from Chapter:

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4. c How many electrons can an energy level of $n = 2$ hold? (a) 32 (c) 8 (b) 24 (d) 6 . 5. c Compared with an electron for which $n = 2$, an electron for which $n =$

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4 has more (a) spin. (c) energy. (b) particle nature. (d) wave nature. 6. c . According to Bohr, which is the point in the figure below where electrons cannot reside? (a) point A (c) point C

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Atoms. The “Puzzle” of the nucleus: •
Protons and electrons are attracted to each other because of opposite charges •
Electrically charged particles moving in a curved path give off energy • Despite these facts, atoms don't collapse. 4-1 The Development of a New Atomic Model.

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**Chapter 4 - Arrangement of Electrons
in Atoms**

ARRANGEMENT OF ELECTRONS IN
ATOMS 91 SECTION 4-1 O BJECTIVES

Explain the mathematical relationship
among the speed, wavelength, and
frequency of electromagnetic radiation.
Discuss the dual wave-particle nature of

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light. Discuss the significance of the photoelectric effect and the line-emission spectrum of hydrogen to the development of the atomic model.

Chapter 4 Arrangement of electrons Chemistry Bishop ...

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Electrons in Atoms CHAPTER 4

REVIEW Arrangement of Electrons in
Atoms Teacher Notes and Answers

Chapter 4 SECTION 1 SHORT ANSWER

1. In order for an electron to be ejected from a metal surface, the electron must be struck by a single photon with at least the minimum energy needed to knock the

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electron loose. 2.

Chapter 4 Arrangement Of Electrons

Hund's rule. orbitals of equal energy are each occupied by one electron before any orbital is occupied by a second electron, and all electrons in singly occupied

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orbitals must have the same spin. Pauli's exclusion principle. no two electrons in an atom can have the same set of quantum numbers.

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Chapter Four [Arrangement of Electrons

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in Atoms] Chapter Five [The Periodic Law] Chapter Six [Chemical Bonding] Chapter Seven [Chemical Formulas and Chemical Compounds] ... Chapter Lab - Flame tests . Homework: Section 1: Chapter review 1 thru 14. Section 2: Chapter review 15 thru 22.

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Holt McDougal Modern Chemistry

Chapter 4: Arrangement of ...

Chapter 4 - Arrangement of Electrons in Atoms In the previous chapter, basic atomic structure was introduced and nuclear chemistry was reviewed. In this chapter, we will study how electrons are...

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Page 26/28

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Modern Chemistry 5 Arrangement of
Electrons in Atoms CHAPTER 4

REVIEW Arrangement of Electrons in
Atoms SECTION 2 SHORT ANSWER

Answer the following questions in the
space provided. 1. _____ How many
quantum numbers are used to describe the

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properties of electrons in atomic orbitals?

(a) 1 (c) 3 (b) 2 (d) 4 2.

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