

CHAPTER 4 REVIEW*Arrangement of Electrons in Atoms***MIXED REVIEW****SHORT ANSWER** Answer the following questions in the space provided.

1. Under what conditions is a photon emitted from an atom?

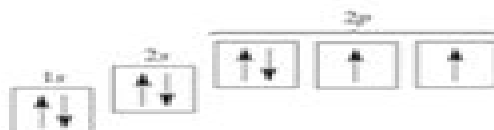
A photon is emitted when an electron moves from a higher energy level to a lower energy level.

2. What do quantum numbers describe?

Quantum numbers describe the energy level, orbital shape, orbital orientation, and spin state of an electron.

3. What is the relationship between the principal quantum number and the electron configuration?

The principle quantum number, n , describes the energy level. For example, the electrons at $2p^6$ are at the energy level represented by $n = 2$.



4. In what way does the figure above illustrate Hund's rule?

The most stable arrangement of electrons is one with the maximum number of unpaired electrons.

5. In what way does the figure above illustrate the Pauli exclusion principle?

No two electrons have the same set of four quantum numbers.

Electron Arrangement Review Worksheet Answers

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