

Name KEY

## Orbital Diagrams

Orbital diagrams show the electronic configuration and electron pairings within an atom. Each box represents an orbital. Each orbital can only hold two electrons. Electrons are represented by arrows, which can point up (spin up) or point down (spin down). Remember the two rules for orbital diagrams: **Pauli Exclusion Principle** - no two electrons with the same spin can occupy the same orbital, and **Hund's Rule** - every orbital in the same sublevel must have one electron before electrons will pair.

First label the boxes with their principal energy level number and sublevel letter. Then start to fill in the electrons (put arrows in the boxes). When your orbital diagram is finished, write the final electron configuration on the line below the orbital diagram.



Electron configuration:  $1s^2 2s^2 2p^6 3s^2 3p^1$



Electron configuration:  $1s^2 2s^2 2p^2$



Electron configuration:  $1s^2 2s^2 2p^6 3s^2 3p^2$



Electron configuration:  $1s^2 2s^2 2p^6 3s^2 3p^5$



Electron configuration:  $1s^2 2s^2 2p^4$

Draw an orbital diagram for the following atoms on your own.



Electron configuration:  $1s^2 2s^2 2p^1$



Electron configuration:  $1s^2 2s^2 2p^6 3s^2 3p^4 4s^1$

# Electron Configuration Chemistry Packet Key

**Neil D. Jespersen, Pamela Kerrigan**



## **Electron Configuration Chemistry Packet Key:**

## Unveiling the Magic of Words: A Report on "**Electron Configuration Chemistry Packet Key**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Electron Configuration Chemistry Packet Key**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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