

**Table 8.3 Partial Orbital Diagrams and Electron Configurations\* for the Elements in Period 3**

Atomic Number/ Element	Partial Orbital Diagram (3s and 3p Sublevels Only)	Full Electron Configuration	Condensed Electron Configuration
11/Na	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^1$	[Ne] $3s^1$
12/Mg	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^2$	[Ne] $3s^2$
13/Al	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^2 3p^1$	[Ne] $3s^2 3p^1$
14/Si	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^2 3p^2$	[Ne] $3s^2 3p^2$
15/P	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^2 3p^3$	[Ne] $3s^2 3p^3$
16/S	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^2 3p^4$	[Ne] $3s^2 3p^4$
17/Cl	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^2 3p^5$	[Ne] $3s^2 3p^5$
18/Ar	$3s$ $3p$	$[1s^2 2s^2 2p^6] 3s^2 3p^6$	[Ne] $3s^2 3p^6$

Hund's rule

# Chapter 8 Electron Configuration And General Chemistry

**M Walker**



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