

Electron Configuration, Orbital Notation, and Valence Electrons Review Worksheet

Element and Atomic #	Electron Configuration	Orbital Notation	# of Valence Electrons
Si 14	$1s^2 2s^2 2p^6 3s^2 3p^2$	$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$ $\overline{3s}$ $\overline{\underline{3p}}$	
Fe 26	$1s^2 2s^2 2p^6 3s^2 3p^6$ $4s^2 3d^6$	$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$ $\overline{3s}$ $\overline{\underline{3p}}$ $\overline{4s}$ $\overline{\underline{\underline{3d}}}$	
He 2		$\overline{1s}$	
B 5		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$	
Ne 10		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$	
P 15		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$ $\overline{3s}$ $\overline{\underline{3p}}$	
Ca 20		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$ $\overline{3s}$ $\overline{\underline{3p}}$ $\overline{4s}$ $\overline{\underline{\underline{3d}}}$ $\overline{\underline{4p}}$	
Mn 25		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$ $\overline{3s}$ $\overline{\underline{3p}}$ $\overline{4s}$ $\overline{\underline{\underline{3d}}}$ $\overline{\underline{4p}}$	
As 33		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$ $\overline{3s}$ $\overline{\underline{3p}}$ $\overline{4s}$ $\overline{\underline{\underline{3d}}}$ $\overline{\underline{4p}}$	
N 7		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$	
Cl 17		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$ $\overline{3s}$ $\overline{\underline{3p}}$	
F 9		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$	
Be 4		$\overline{1s}$ $\overline{2s}$ $\overline{\underline{2p}}$	

