Electron Configurations

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CO	•

The <u>superscript</u> represents the number of **electrons** in that energy level and orbital. Add up all the subscripts and you can identify the atom

Practic	e:
Mg	
	p+ = e
Ni	
	p+ = e
Li	
	p+ = e
Atoms P	: equals
	p+ = e
lons: _	do NOT equal
P ⁻³	
	p+ and e
Add up	the electronswhat neutral atom has that many electrons?
	**Ions have the same electron configuration as noble gases (group 18) **
Isoeled	etronic:
	Ex. Argon is isoelectronic with a phosphide ion (P ³⁻)
Practic	e:
Cl ⁻	
	p+ and e
	isoelectronic -
N ³⁻	
	p+ and e
	isoelectronic-
	· · · · · · · · · · · · · · · · · · ·

Al^{3+}
p+ and e
isoelectronic -
Writing electron configurations still takes some time
Al
Ne
Shorthand (Noble Gas) configuration:
IT MUST ALWAYS BE A NOBLE GAS (GROUP 18) IN BRACKETS:
Ca
p+ = e
As
p+ = e

Cd

p+ _____ and e- ____