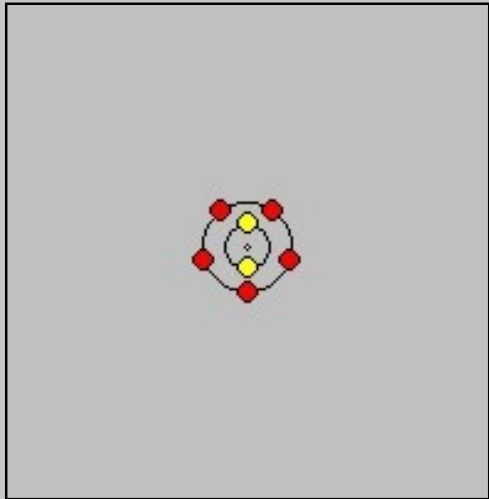




N	P	As	Sb	Bi	Uup	Uhp	Bup
7	15	33	51	83	115	165	215

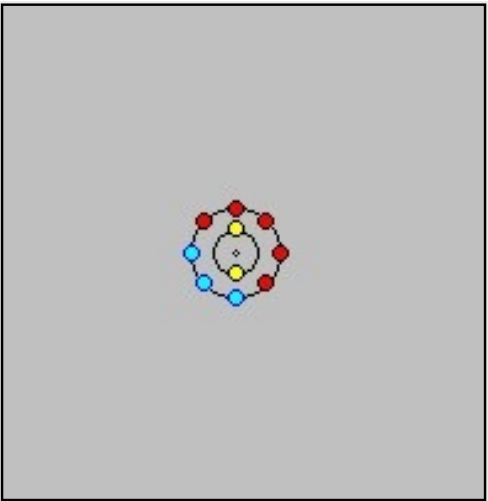
Nitrogen

Symbol	N
Atomic Number	7
Relative Atomic Mass $^{12}\text{C} = 12.0000$	14.0067
Atomic Radius pm	70
First Ionisation Energy kJ mol^{-1}	1402.3
Ionization energy (eV)	14,5341
Electronegativity	3.04
Density kg m^{-3}	1026 [21 K] 880 [b.p.] 1.2506 [273 K]
Molar Volume cm^3	13.65 [21 K]
Thermal Conductivity $\text{W m}^{-1} \text{K}^{-1}$	0.02598 [300 K]
Melting Point K	63.29
Boiling Point K	77.4
Number of Isotopes	8
Inner + outer Shells	1 + 1 = 2
Inner + outer Orbitals	2 + 5 = 7
Filling Orbital	2p ³
Ground State Electron Configuration	[He] 2s ² 2p ³
Ground State Electron Configuration with free Orbitals (n= 3)	



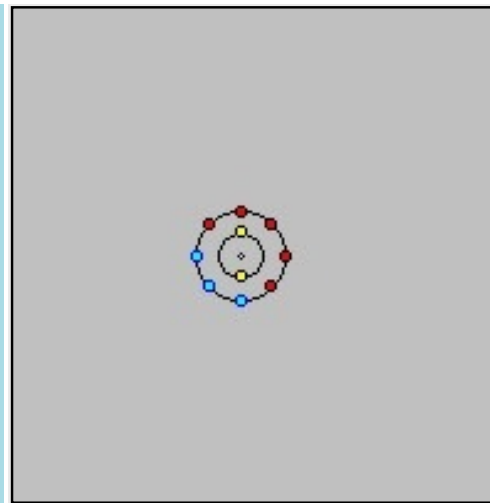
2, 5

0, 3



Ground State Electron Configuration with compressed Orbitals (n=0)

0, 0



Singularity

$$10 = 2 + 5 + 3 + 0$$

	s	p	d	f	g	h	i	j
1	2							
2	2	3	3					
3								
4								
5								
6								
7								
8								

Term Symbol

$4S_{3/2}$

Discovery

Discovered by D. Rutherford (Edinburgh, Scotland) in 1772

Name Derived From

Greek nitro genes meaning 'nitre forming'