

Atom

Config

Electrons

$n = 1$

H

$1s^1$

1

He

$1s^2$

2

$n = 2$

Li

$1s^2 2s^1$

3

Be

$1s^2 2s^2$

4

B

$1s^2 2s^2 2p^1$

5

C

$1s^2 2s^2 2p^2$

6

N

$1s^2 2s^2 2p^3$

7

O

$1s^2 2s^2 2p^4$

8

F

$1s^2 2s^2 2p^5$

9

Ne

$1s^2 2s^2 2p^6$

10

$n = 3$

Na	$1s^2 2s^2 2p^6 3s^1$	11
Mg	$1s^2 2s^2 2p^6 3s^2$	12
Al	$1s^2 2s^2 2p^6 3s^2 3p^1$	13
Si	$1s^2 2s^2 2p^6 3s^2 3p^2$	14
P	$1s^2 2s^2 2p^6 3s^2 3p^3$	15
S	$1s^2 2s^2 2p^6 3s^2 3p^4$	16
Cl	$1s^2 2s^2 2p^6 3s^2 3p^5$	17
Ar	$1s^2 2s^2 2p^6 3s^2 3p^6$	18
K	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^0 4s^1$	19
Ca	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^0 4s^2$	20
Sc	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^1 4s^2$	21
Ti	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^2 4s^2$	22
V	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^3 4s^2$	23
Cr	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$	24
Mn	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^2$	25
Fe	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^6 4s^2$	26
Co	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^7 4s^2$	27
Ni	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2$	28
Cu	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^1$	29
Zn	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2$	30

3d metals

(8 First transition series metals constitute the bulk of essential microminerals to life)