

# Elements and Atoms

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

**H** 1 1.008 **Hydrogen**  
 1 Alkali Metal +H  
 1A Lithium Group  
 Nonmetal  
 Basic Organic

1s1



**He** 2 4.003 **Helium**  
 18 Noble Gas  
 8A Helium Group  
 Noble Gas

1s2



**Li** 3 6.941 **Lithium**  
 1 Alkali Metal +H  
 1A Lithium Group  
 Alkali Metal  
 Suggested Trace

[He]2s1



**Be** 4 9.012 **Beryllium**  
 2 Alkaline Earth Metal  
 2A Beryllium Group  
 Alkaline Earth Metal

[He]2s2



## Elements and Atoms

Printed 6/14/2022, 2/30

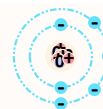
Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

**B** 5 10.31 **Boron**  
13 Triel  
3A Boron Group  
Metalloid  
Suggested Trace



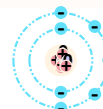
[He]2s2 2p1

**C** 6 12.01 **Carbon**  
14 Tetrel  
4A Carbon Group  
Nonmetal  
Basic Organic



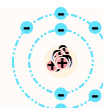
[He]2s2 2p2

**N** 7 14.01 **Nitrogen**  
15 Pnictogen  
5A Nitrogen Group  
Nonmetal  
Basic Organic



[He]2s2 2p3

**O** 8 16 **Oxygen**  
16 Chalcogen  
6A Oxygen Group  
Nonmetal  
Basic Organic



[He]2s2 2p4

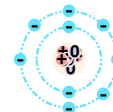
## Elements and Atoms

Printed 6/14/2022, 3/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

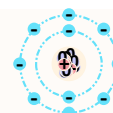
**F** 9 19 **Flourine**  
17 Halogen  
7A Flourine Group  
Halogen  
Suggested Trace

[He]2s2 2p5



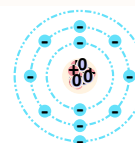
**Ne** 10 20.18 **Neon**  
18 Noble Gas  
8A Helium Group  
Noble Gas

[He]2s2 2p6



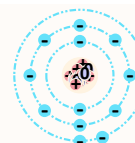
**Na** 11 22.99 **Sodium**  
1 Alkali Metal +H  
1A Lithium Group  
Alkali Metal  
Quantity

[Ne]3s1



**Mg** 12 24.31 **Magnesium**  
2 Alkaline Earth Metal  
2A Beryllium Group  
Alkaline Earth Metal  
Quantity

[Ne]3s2



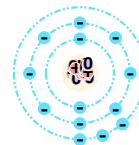
## Elements and Atoms

Printed 6/14/2022, 4/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

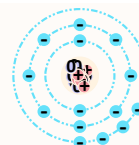
<b>Al</b>	13	26.982	<b>Aluminum</b>
			13 Tritel
			3A Boron Group
			Basic Metal
			Trace Circumstantial

[Ne]3s2 3p1



<b>Si</b>	14	28.086	<b>Silicon</b>
			14 Tetrel
			4A Carbon Group
			Metalloid
			Suggested Trace

[Ne]3s2 3p2



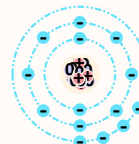
<b>P</b>	15	30.97	<b>Phosphorus</b>
			15 Pnictogen
			5A Nitrogen Group
			Nonmetal
			Quantity

[Ne]3s2 3p3



<b>S</b>	16	32.07	<b>Sulfur</b>
			16 Chalcogen
			6A Oxygen Group
			Nonmetal
			Quantity

[Ne]3s2 3p4

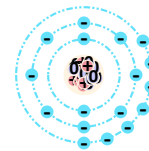


## Elements and Atoms

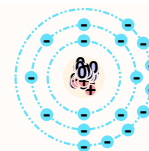
Printed 6/14/2022, 5/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

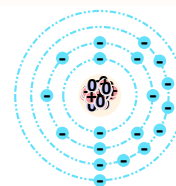
**Cl** 17 35.45  
[Ne]3s<sup>2</sup> 3p<sup>5</sup>  
**Chlorine**  
17 Halogen  
7A Flourine Group  
Halogen  
Quantity



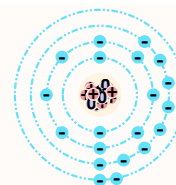
**Ar** 18 39.948  
[Ne]3s<sup>2</sup> 3p<sup>6</sup>  
**Argon**  
18 Noble Gas  
8A Helium Group  
Noble Gas



**K** 19 39.1  
[Ar]4s<sup>1</sup>  
**Potassium**  
1 Alkali Metal +H  
1A Lithium Group  
Alkali Metal  
Quantity



**Ca** 20 40.08  
[Ar]4s<sup>2</sup>  
**Calcium**  
2 Alkaline Earth Metal  
2A Beryllium Group  
Alkaline Earth Metal  
Quantity



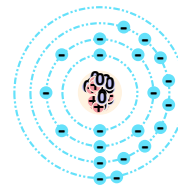
## Elements and Atoms

Printed 6/14/2022, 6/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

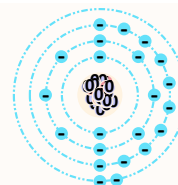
**Sc** 21 44.956 **Scandium**  
3 Transition Metal 3  
3B Scandium Group  
Transition Metal

[Ar]3d1 4s2



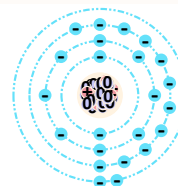
**Ti** 22 47.867 **Titanium**  
4 Transition Metal 4  
4B Titanium Group  
Transition Metal

[Ar]3d2 4s2



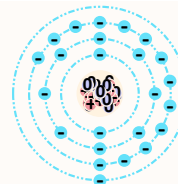
**V** 23 50.94 **Vanadium**  
5 Transition Metal 5  
5B Vanadium Group  
Transition Metal  
Suggested Trace

[Ar]3d3 4s2



**Cr** 24 52 **Chromium**  
6 Transition Metal 6  
6B Chromium Group  
Transition Metal  
Trace by USA

[Ar]3d5 4s1



## Elements and Atoms

Printed 6/14/2022, 7/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

**Mn**

25

54.94

### Manganese

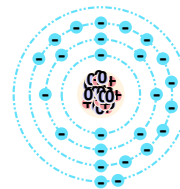
7 Transition Metal 7

7B Manganese Group

Transition Metal

Essential Trace

[Ar]3d5 4s2



**Fe**

26

55.85

### Iron

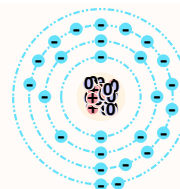
8 Transition Metal 8

8B Iron Group

Transition Metal

Essential Trace

[Ar]3d6 4s2



**Co**

27

58.93

### Cobalt

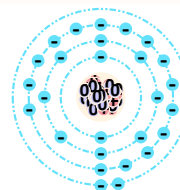
9 Transition Metal 8 (9)

8B Cobalt Group

Transition Metal

Essential Trace

[Ar]3d7 4s2



**Ni**

28

58.69

### Nickel

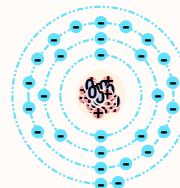
10 Transition Metal 8 (10)

8B Nickel Group

Transition Metal

Suggested Trace

[Ar]3d8 4s2



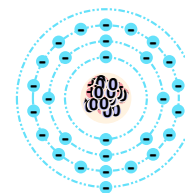
## Elements and Atoms

Printed 6/14/2022, 8/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

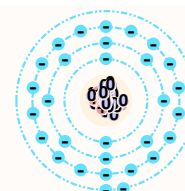
**Cu** 29 63.55 **Copper**  
11 Transition Metal (coins)  
1B Copper Group  
Transition Metal  
Essential Trace

[Ar]3d10 4s1



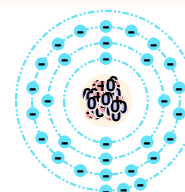
**Zn** 30 65.39 **Zinc**  
12 Volatile Metal  
2B Zinc Group  
Transition Metal  
Essential Trace

[Ar]3d10 4s2



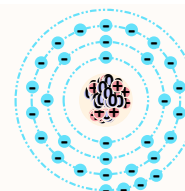
**Ga** 31 69.723 **Gallium**  
13 Triel  
3A Boron Group  
Basic Metal

[Ar]3d10 4s2 4p1



**Ge** 32 72.64 **Germanium**  
14 Tetrel  
4A Carbon Group  
Metalloid  
Trace Circumstantial

[Ar]3d10 4s2 4p2





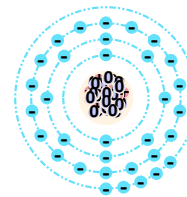
## Elements and Atoms

Printed 6/14/2022, 9/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

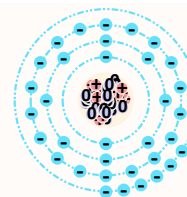
**As** 33 74.922 **Arsenic**  
15 Pnictogen  
5A Nitrogen Group  
Metalloid  
Trace Circumstantial

[Ar]3d10 4s2 4p3



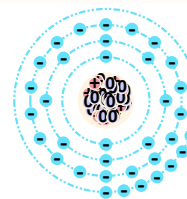
**Se** 34 78.96 **Selenium**  
16 Chalcogen  
6A Oxygen Group  
Nonmetal  
Essential Trace

[Ar]3d10 4s2 4p4



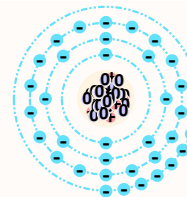
**Br** 35 79.904 **Bromine**  
17 Halogen  
7A Flourine Group  
Halogen  
Suggested Trace

[Ar]3d10 4s2 4p5



**Kr** 36 83.8 **Krypton**  
18 Noble Gas  
8A Helium Group  
Noble Gas

[Ar]3d10 4s2 4p6



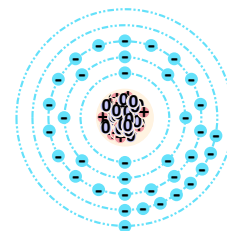
## Elements and Atoms

Printed 6/14/2022, 10/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

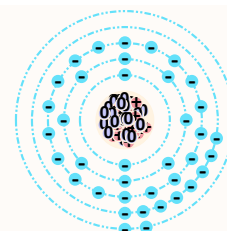
**Rb** 37 85.468 **Rubidium**  
1 Alkali Metal +H  
1A Lithium Group  
Alkali Metal  
Trace Circumstantial

[Kr]5s1



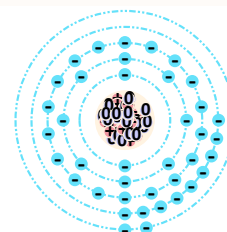
**Sr** 38 87.62 **Strontium**  
2 Alkaline Earth Metal  
2A Beryllium Group  
Alkaline Earth Metal  
Suggested Trace

[Kr]5s2



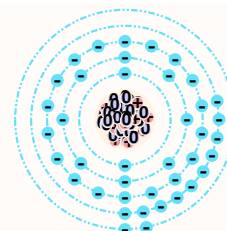
**Y** 39 88.906 **Yttrium**  
3 Transition Metal 3  
3B Scandium Group  
Transition Metal

[Kr]4d1 5s2



**Zr** 40 91.224 **Zirconium**  
4 Transition Metal 4  
4B Titanium Group  
Transition Metal

[Kr]4d2 5s2



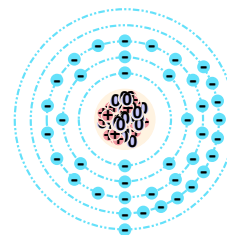
## Elements and Atoms

Printed 6/14/2022, 11/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

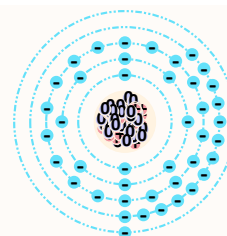
**Nb** 41 92.906 **Noibium**  
5 Transition Metal 5  
5B Vanadium Group  
Transition Metal

[Kr]4d4 5s1



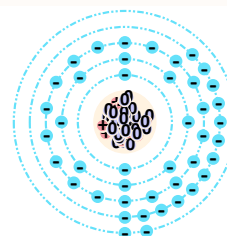
**Mo** 42 95.94 **Molybdenum**  
6 Transition Metal 6  
6B Chromium Group  
Transition Metal  
Essential Trace

[Kr]4d5 5s1



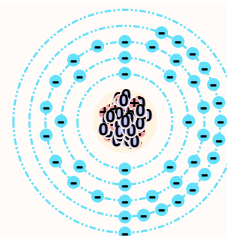
**Tc** 43 98 **Technetium**  
7 Transition Metal 7  
7B Manganese Group  
Synthesized, not stable

[Kr]4d5 5s2  
*Radioactive*



**Ru** 44 101.07 **Ruthenium**  
8 Transition Metal 8  
8B Iron Group  
Transition Metal

[Kr]4d7 5s1



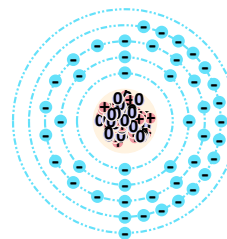
## Elements and Atoms

Printed 6/14/2022, 12/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

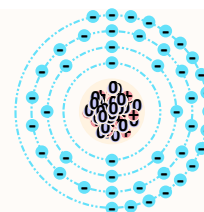
**Rh** 45 102.906 **Rhodium**  
9 Transition Metal 8 (9)  
8B Cobalt Group  
Transition Metal

[Kr]4d8 5s1



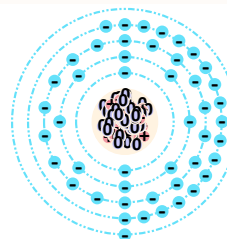
**Pd** 46 106.42 **Palladium**  
10 Transition Metal 8 (10)  
8B Nickel Group  
Transition Metal

[Kr]4d10



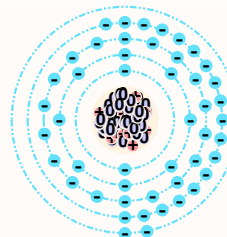
**Ag** 47 107.868 **Silver**  
11 Transition Metal (coins)  
1B Copper Group  
Transition Metal

[Kr]4d10 5s1



**Cd** 48 112.411 **Cadmium**  
12 Volatile Metal  
2B Zinc Group  
Transition Metal  
Lower Organisms

[Kr]4d10 5s2



## Elements and Atoms

Printed 6/14/2022, 13/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

In

49

114.818

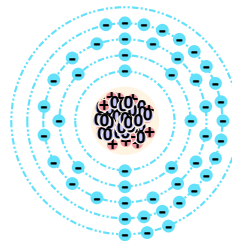
### Indium

13 Triel

3A Boron Group

Basic Metal

[Kr]4d10 5s2 5p1



Sn

50

118.7

### Tin

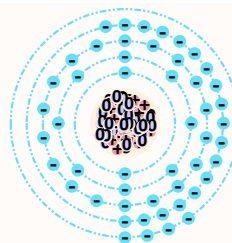
14 Tetrel

4A Carbon Group

Basic Metal

Trace Circumstantial

[Kr]4d10 5s2 5p2



Sb

51

121.76

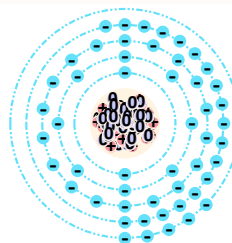
### Antimony

15 Pnictogen

5A Nitrogen Group

Metalloid

[Kr]4d10 5s2 5p3



Te

52

127.6

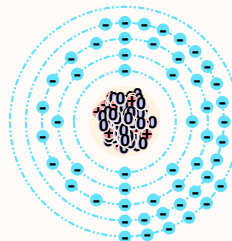
### Tellurium

16 Chalcogen

6A Oxygen Group

Metalloid

[Kr]4d10 5s2 5p4



## Elements and Atoms

Printed 6/14/2022, 14/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient



53

126.9

### Iodine

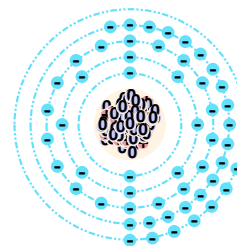
17 Halogen

7A Flourine Group

Halogen

Essential Trace

[Kr]4d10 5s2 5p5



54

131.293

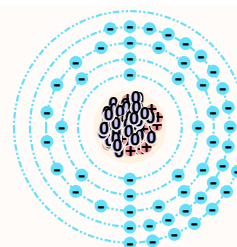
### Xenon

18 Noble Gas

8A Helium Group

Noble Gas

[Kr]4d10 5s2 5p6



55

132.906

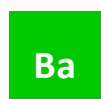
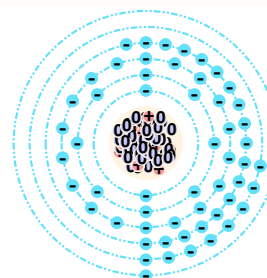
### Cesium

1 Alkali Metal +H

1A Lithium Group

Alkali Metal

[Xe]6s1



56

137.3

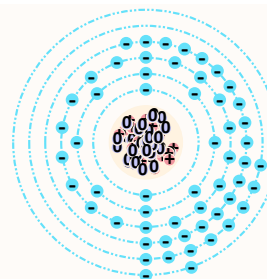
### Barium

2 Alkaline Earth Metal

2A Beryllium Group

Alkaline Earth Metal

[Xe]6s2



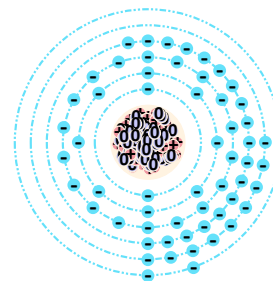
## Elements and Atoms

Printed 6/14/2022, 15/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

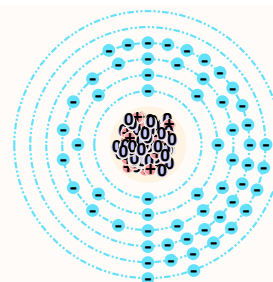
**La** 57 138.906 **Lanthanum**  
Lanthanide  
La Lanthanum Group  
Lanthanide  
Lower Organisms

[Xe]5d1 6s2



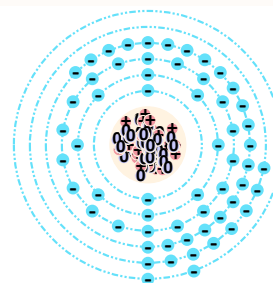
**Ce** 58 140.116 **Cerium**  
Lanthanide  
La Lanthanum Group  
Lanthanide  
Lower Organisms

[Xe]4f1 5d1 6s2



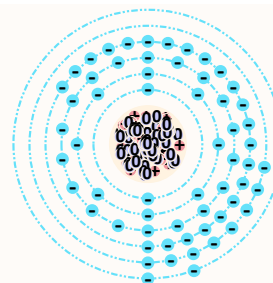
**Pr** 59 140.908 **Praseodymium**  
Lanthanide  
La Lanthanum Group  
Lanthanide  
Lower Organisms

[Xe]4f3 6s2



**Nd** 60 144.24 **Neodymium**  
Lanthanide  
La Lanthanum Group  
Lanthanide  
Lower Organisms

[Xe]4f4 6s2

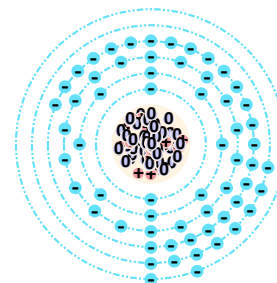


## Elements and Atoms

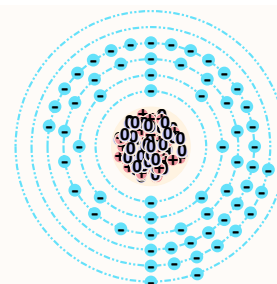
Printed 6/14/2022, 16/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

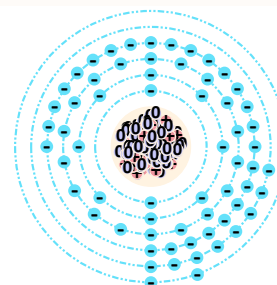
**Pm** 61 145 **Promethium**  
Lanthanide  
*Radioactive* La Lanthanum Group  
Synthesized, not stable  
[Xe]4f5 6s2



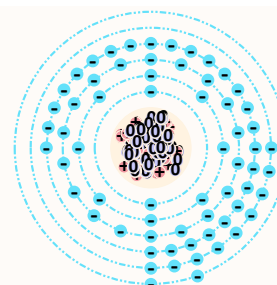
**Sm** 62 150.36 **Samarium**  
Lanthanide  
La Lanthanum Group  
Lanthanide  
Lower Organisms  
[Xe]4f6 6s2



**Eu** 63 151.964 **Europium**  
Lanthanide  
La Lanthanum Group  
Lanthanide  
[Xe]4f7 6s2



**Gd** 64 157.25 **Gadolinium**  
Lanthanide  
La Lanthanum Group  
Lanthanide  
[Xe]4f7 5d1 6s2





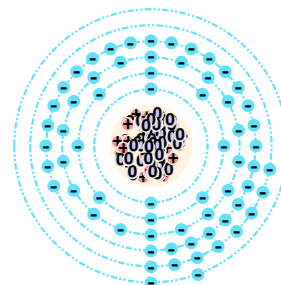
## Elements and Atoms

Printed 6/14/2022, 17/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

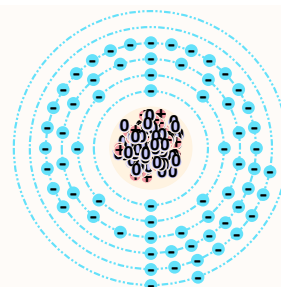
**Tb** 65 158.925 **Terbium**  
Lanthanide  
La Lanthanum Group  
Lanthanide

[Xe]4f9 6s2



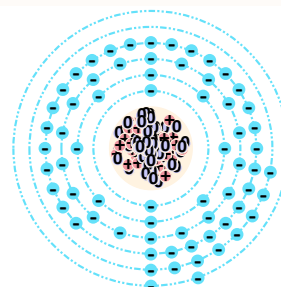
**Dy** 66 162.5 **Dysprosium**  
Lanthanide  
La Lanthanum Group  
Lanthanide

[Xe]4f10 6s2



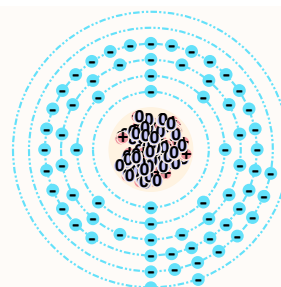
**Ho** 67 164.93 **Holmium**  
Lanthanide  
La Lanthanum Group  
Lanthanide

[Xe]4f11 6s2



**Er** 68 167.259 **Erbium**  
Lanthanide  
La Lanthanum Group  
Lanthanide

[Xe]4f12 6s2



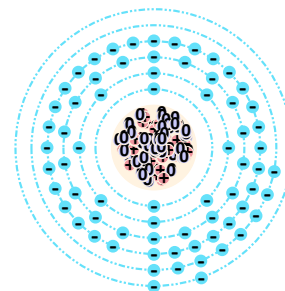
## Elements and Atoms

Printed 6/14/2022, 18/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

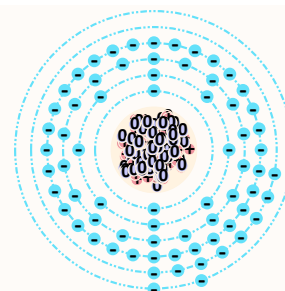
**Tm** 69 168.934 **Thulim**  
Lanthanide  
La Lanthanum Group  
Lanthanide

[Xe]4f13 6s2



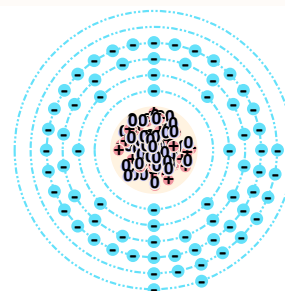
**Yb** 70 173.04 **Ytterbium**  
Lanthanide  
La Lanthanum Group  
Lanthanide

[Xe]4f14 6s2



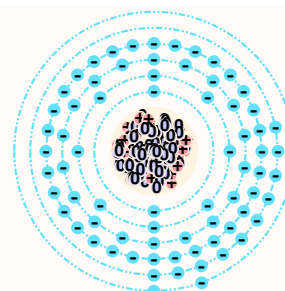
**Lu** 71 174.97 **Lutetium**  
3 Transition Metal 3  
3B Scandium Group  
Transition Metal

[Xe]4f14 5d1 6s2



**Hf** 72 178.49 **Hafnium**  
4 Transition Metal 4  
4B Titanium Group  
Transition Metal

[Xe]4f14 5d2 6s2



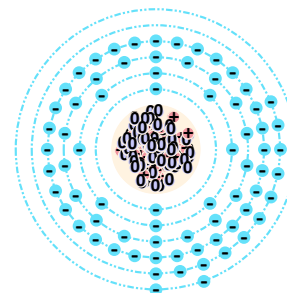
## Elements and Atoms

Printed 6/14/2022, 19/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

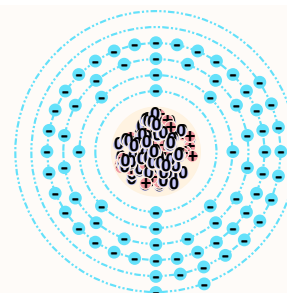
<b>Ta</b>	73	180.948	<b>Tantalum</b>
			5 Transition Metal 5
			5B Vanadium Group
			Transition Metal

[Xe]4f14 5d3 6s2



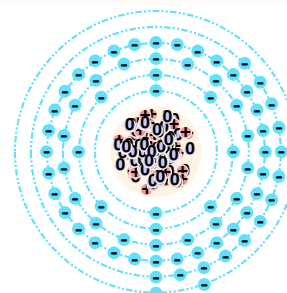
<b>W</b>	74	183.84	<b>Tungsten</b>
			6 Transition Metal 6
			6B Chromium Group
			Transition Metal
			Lower Organisms

[Xe]4f14 5d4 6s2



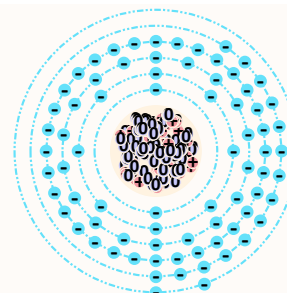
<b>Re</b>	75	186.207	<b>Rhenium</b>
			7 Transition Metal 7
			7B Manganese Group
			Transition Metal

[Xe]4f14 5d5 6s2



<b>Os</b>	76	190.23	<b>Osmium</b>
			8 Transition Metal 8
			8B Iron Group
			Transition Metal

[Xe]4f14 5d6 6s2



## Elements and Atoms

Printed 6/14/2022, 20/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

**Ir**

77

192.217

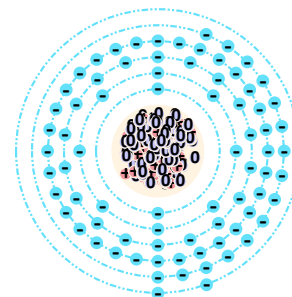
### Iridium

9 Transition Metal 8 (9)

8B Cobalt Group

Transition Metal

[Xe]4f14 5d7 6s2



**Pt**

78

195.078

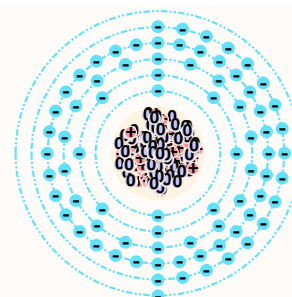
### Platinum

10 Transition Metal 8 (10)

8B Nickel Group

Transition Metal

[Xe]4f14 5d9 6s1



**Au**

79

196.967

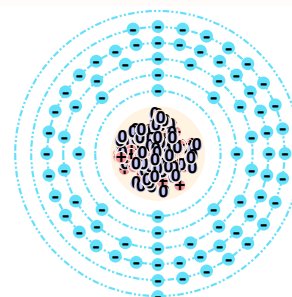
### Gold

11 Transition Metal (coins)

1B Copper Group

Transition Metal

[Xe]4f14 5d10 6s1



**Hg**

80

200.59

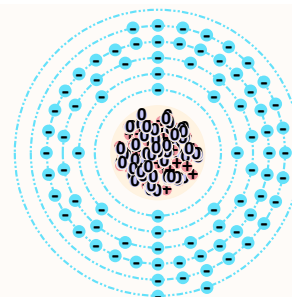
### Mercury

12 Volatile Metal

2B Zinc Group

Transition Metal

[Xe]4f14 5d10 6s2



## Elements and Atoms

Printed 6/14/2022, 21/30

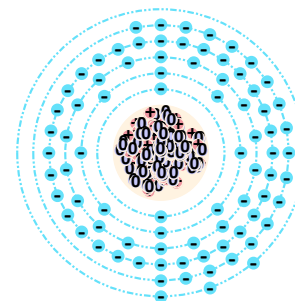
Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

**Tl** 81 204.383

### Thallium

13 Triel  
3A Boron Group  
Basic Metal

[Xe]4f14 5d10 6s2 6p1

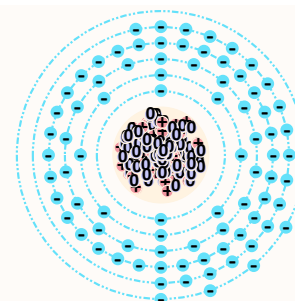


**Pb** 82 207.2

### Lead

14 Tetrel  
4A Carbon Group  
Basic Metal  
Trace Circumstantial

[Xe]4f14 5d10 6s2 6p2

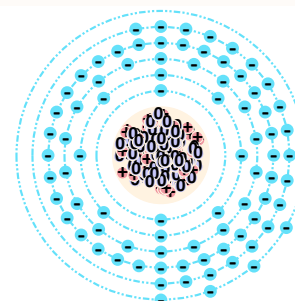


**Bi** 83 208.98

### Bismuth

15 Pnictogen  
5A Nitrogen Group  
Basic Metal

[Xe]4f14 5d10 6s2 6p3

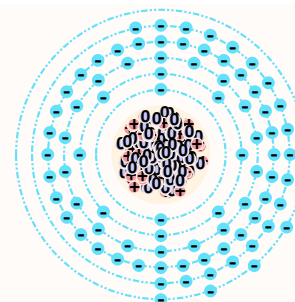


**Po** 84 209

### Polonium

16 Chalcogen  
6A Oxygen Group  
Metalloid

*Radioactive*  
[Xe]4f14 5d10 6s2 6p4



## Elements and Atoms

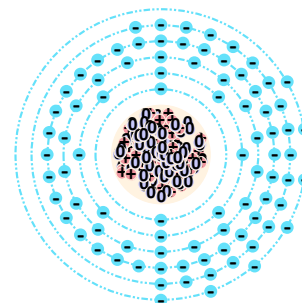
Printed 6/14/2022, 22/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

<b>At</b>	85	210	<b>Astatine</b>
			17 Halogen
			7A Flourine Group Halogen

*Radioactive*

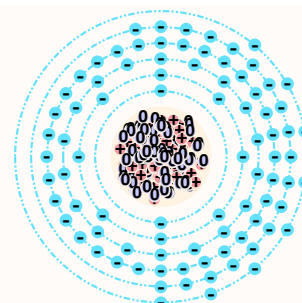
[Xe]4f14 5d10 6s2 6p5



<b>Rn</b>	86	222	<b>Radon</b>
			18 Noble Gas
			8A Helium Group Noble Gas

*Radioactive*

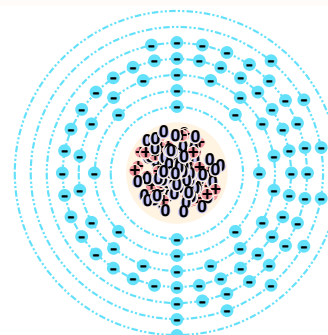
[Xe]4f14 5d10 6s2 6p6



<b>Fr</b>	87	223	<b>Francium</b>
			1 Alkali Metal +H
			1A Lithium Group Alkali Metal

*Radioactive*

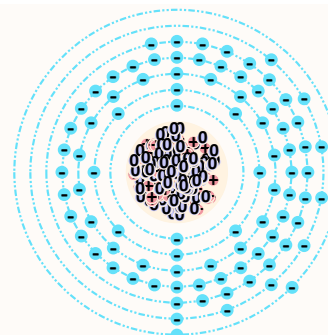
[Rn]7s1



<b>Ra</b>	88	226	<b>Radium</b>
			2 Alkaline Earth Metal
			2A Beryllium Group Alkaline Earth Metal

*Radioactive*

[Rn]7s2



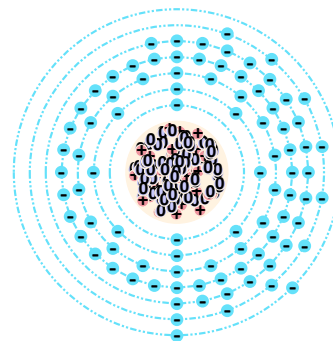
## Elements and Atoms

Printed 6/14/2022, 23/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

<b>Ac</b>	89	227	<b>Actinium</b> Actinide Ac Actinium Group Actinide
-----------	----	-----	--

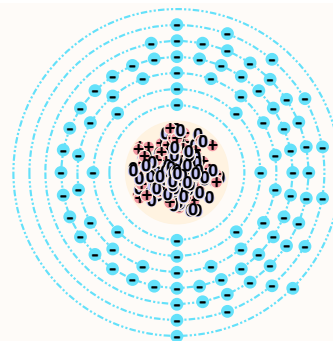
[Rn]6d1 7s2



<b>Th</b>	90	232.038	<b>Thorium</b> Actinide Ac Actinium Group Actinide
-----------	----	---------	---

*Radioactive*

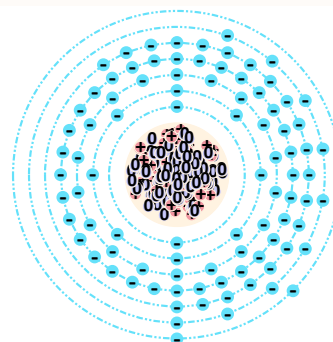
[Rn]6d2 7s2



<b>Pa</b>	91	231.036	<b>Protactinium</b> Actinide Ac Actinium Group Actinide
-----------	----	---------	--

*Radioactive*

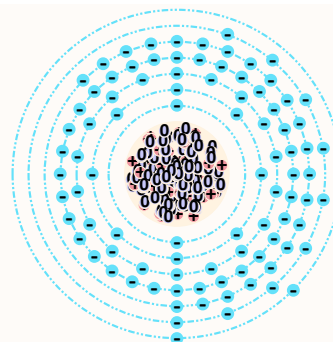
[Rn]5f2 6d1 7s2



<b>U</b>	92	238.029	<b>Uranium</b> Actinide Ac Actinium Group Actinide
----------	----	---------	---

*Radioactive*

[Rn]5f3 6d1 7s2

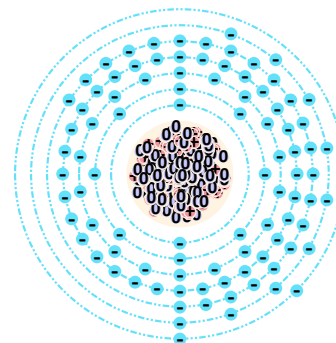


## Elements and Atoms

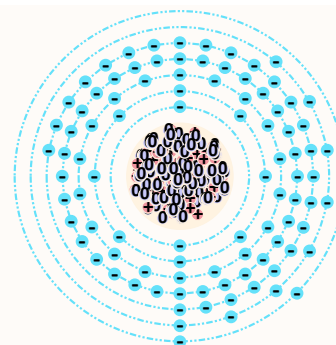
Printed 6/14/2022, 24/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

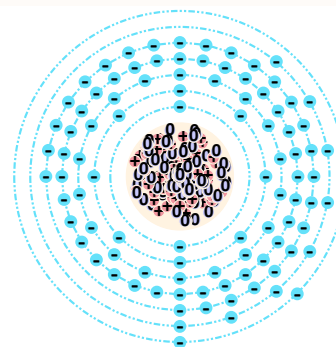
**Np** 93 237 **Neptunium**  
 Actinide  
 Ac Actinium Group  
 Actinide  
*Radioactive*  
 [Rn]5f4 6d1 7s2



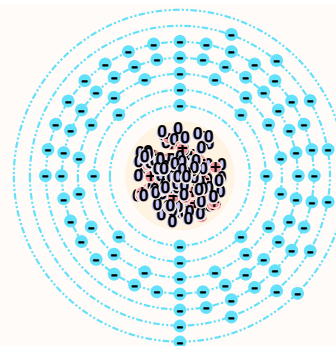
**Pu** 94 244 **Plutonium**  
 Actinide  
 Ac Actinium Group  
 Actinide  
*Radioactive*  
 [Rn]5f6 7s2



**Am** 95 243 **Americium**  
 Actinide  
 Ac Actinium Group  
 Synthesized, not stable  
*Radioactive*  
 [Rn]5f7 7s2



**Cm** 96 247 **Curium**  
 Actinide  
 Ac Actinium Group  
 Synthesized, not stable  
*Radioactive*  
 [Rn]5f7 6d1 7s2



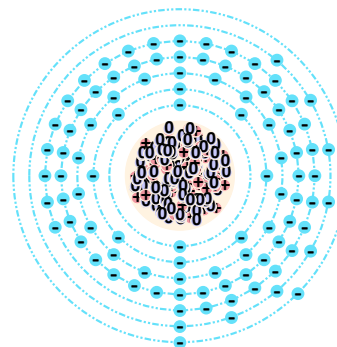


## Elements and Atoms

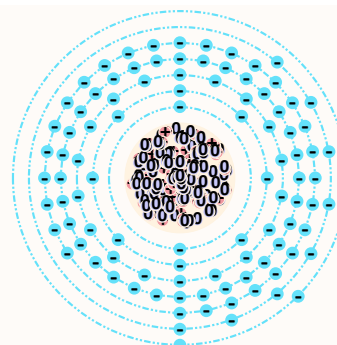
Printed 6/14/2022, 25/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

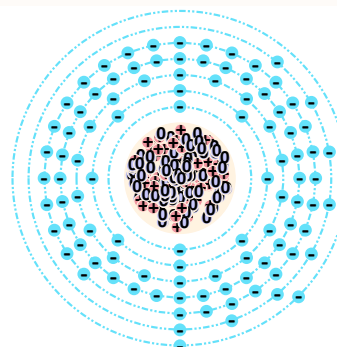
**Bk** 97 247 **Berkelium**  
Actinide  
Ac Actinium Group  
Synthesized, not stable  
*Radioactive*  
[Rn]5f9 7s2



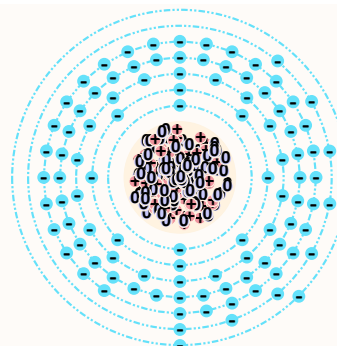
**Cf** 98 251 **Californium**  
Actinide  
Ac Actinium Group  
Synthesized, not stable  
*Radioactive*  
[Rn]5f10 7s2



**Es** 99 252 **Einsteinium**  
Actinide  
Ac Actinium Group  
Synthesized, not stable  
*Radioactive*  
[Rn]5f11 7s2



**Fm** 100 257 **Fermium**  
Actinide  
Ac Actinium Group  
Synthesized, not stable  
*Radioactive*  
[Rn]5f12 7s2

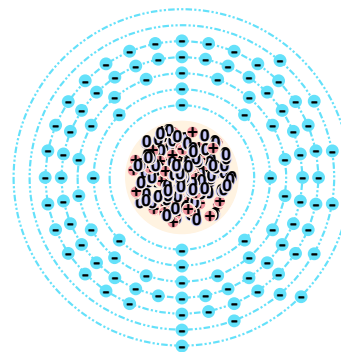


## Elements and Atoms

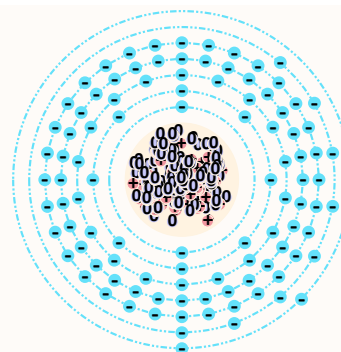
Printed 6/14/2022, 26/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

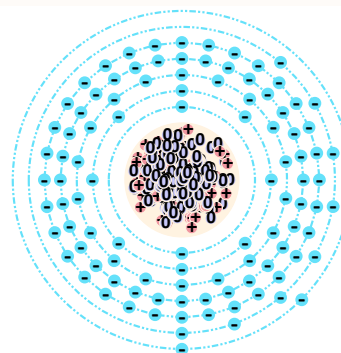
**Md** 101 258 **Mendelevium**  
 Actinide  
 Ac Actinium Group  
 Synthesized, not stable  
*Radioactive*  
 [Rn]5f13 7s2



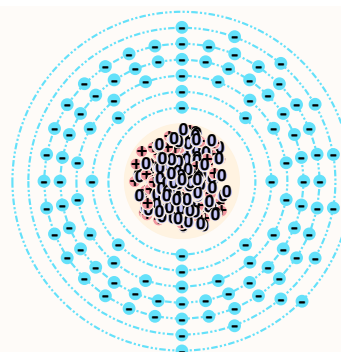
**No** 102 259 **Nobelium**  
 Actinide  
 Ac Actinium Group  
 Synthesized, not stable  
*Radioactive*  
 [Rn]5f14 7s2



**Lr** 103 262 **Lawrencium**  
 3 Transition Metal 3  
 3B Scandium Group  
 Synthesized, not stable  
*Radioactive*  
 [Rn]5f14 7s2 7p1



**Rf** 104 261 **Rutherfordium**  
 4 Transition Metal 4  
 4B Titanium Group  
 Transition Metal  
*Radioactive*  
 [Rn]5f14 6d2 7s2



## Elements and Atoms

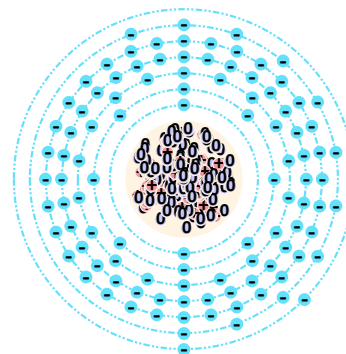
Printed 6/14/2022, 27/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

<b>Db</b>	105	262	<b>Dubnium</b>
			5 Transition Metal 5
			5B Vanadium Group Transition Metal

*Radioactive*

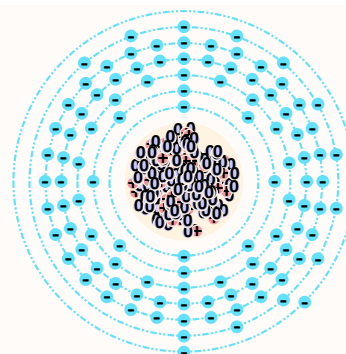
[Rn]5f14 6d3 7s2



<b>Sg</b>	106	266	<b>Seaborgium</b>
			6 Transition Metal 6
			6B Chromium Group Transition Metal

*Radioactive*

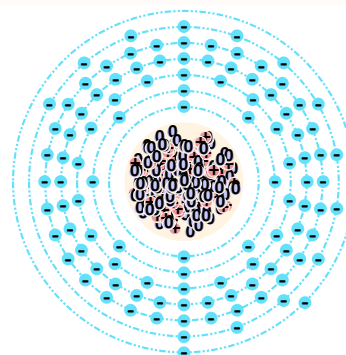
[Rn]5f14 6d4 7s2



<b>Bh</b>	107	264	<b>Bohrium</b>
			7 Transition Metal 7
			7B Manganese Group Transition Metal

*Radioactive*

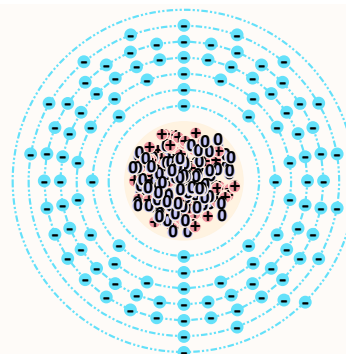
[Rn]5f14 6d5 7s2



<b>Hs</b>	108	277	<b>Hassium</b>
			8 Transition Metal 8
			8B Iron Group Transition Metal

*Radioactive*

[Rn]5f14 6d6 7s2



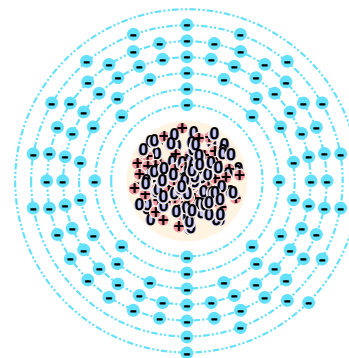
## Elements and Atoms

Printed 6/14/2022, 28/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

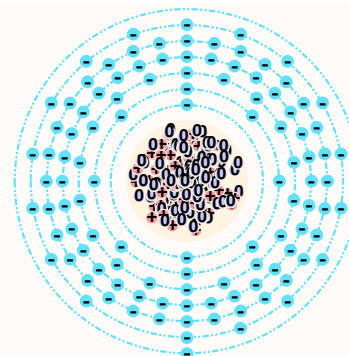
**Mt** 109 268  
*Radioactive*  
[Rn]5f14 6d7 7s2

**Meitnerium**  
9 Transition Metal 8 (9)  
8B Cobalt Group  
Unknown



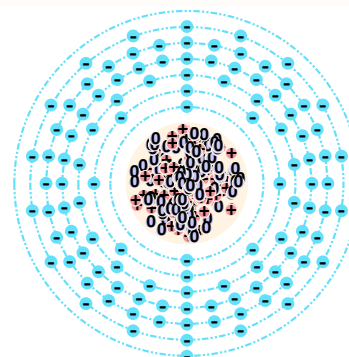
**Ds** 110 270  
*Radioactive*  
[Rn]5f14 6d9 7s1

**Darmstadtium**  
10 Transition Metal 8 (10)  
8B Nickel Group  
Unknown



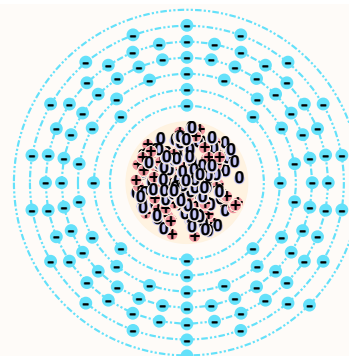
**Rg** 111 272  
*Radioactive*  
[Rn]5f14 6d10 7s1

**Roentgenium**  
11 Transition Metal (coins)  
1B Copper Group  
Unknown



**Cn** 112 284  
*Radioactive*  
[Rn]5f14 6d10 7s2

**Copernicium**  
12 Volatile Metal  
2B Zinc Group  
Transition Metal



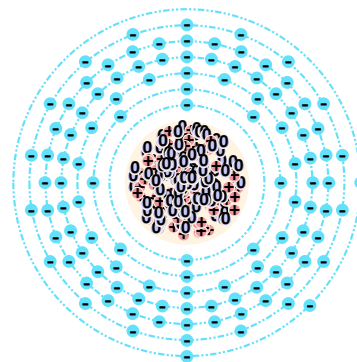
## Elements and Atoms

Printed 6/14/2022, 29/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

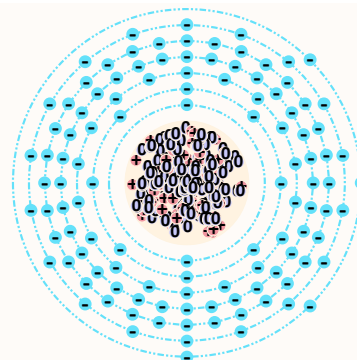
**Nh** 113 287  
*Radioactive*  
[Rn]5f14 6d10 7s2 7p1

**Nihonium**  
13 Triel  
3A Boron Group  
Unknown



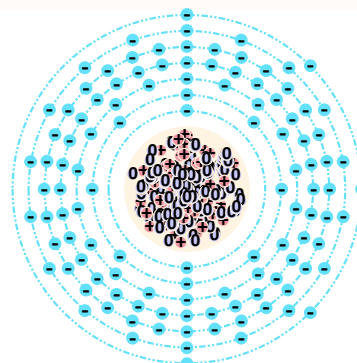
**Fl** 114 289  
*Radioactive*  
[Rn]5f14 6d10 7s2 7p2

**Flerovium**  
14 Tetrel  
4A Carbon Group  
Unknown



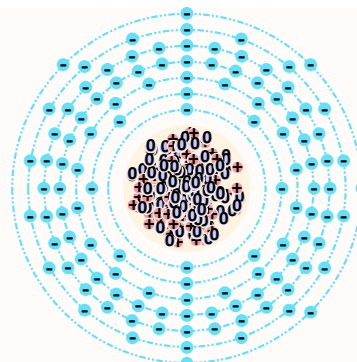
**Mc** 115 290  
*Radioactive*  
[Rn]5f14 6d10 7s2 7p3

**Moscovium**  
15 Pnictogen  
5A Nitrogen Group  
Unknown



**Lv** 116 293  
*Radioactive*  
[Rn]5f14 6d10 7s2 7p4

**Livermorium**  
16 Chalcogen  
6A Oxygen Group  
Unknown



## Elements and Atoms

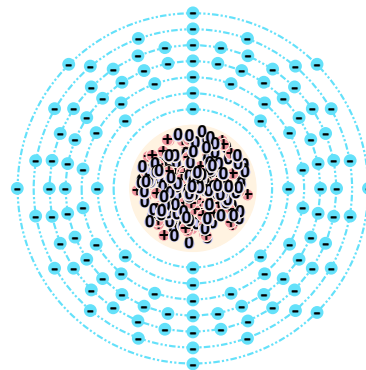
Printed 6/14/2022, 30/30

Symbol Atomic # Atomic Mass Element / Group / Classification / Nutrient

<b>Ts</b>	117	294	<b>Tennesine</b>
			17 Halogen
			7A Flourine Group
			Unknown

*Radioactive*

[Rn]5f14 6d10 7s2 7p5



<b>Og</b>	118	294	<b>Oganesson</b>
			18 Noble Gas
			8A Helium Group
			Unknown

*Radioactive*

[Rn]5f14 6d10 7s2 7p6

