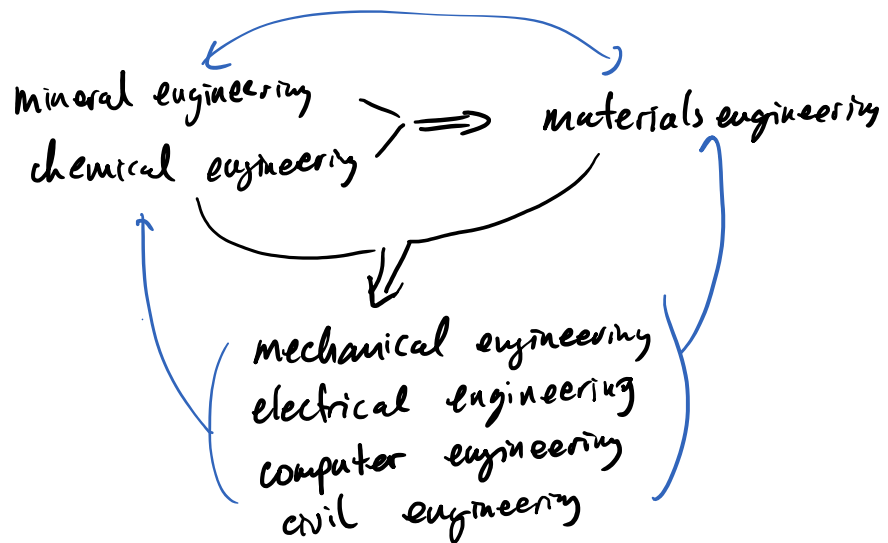
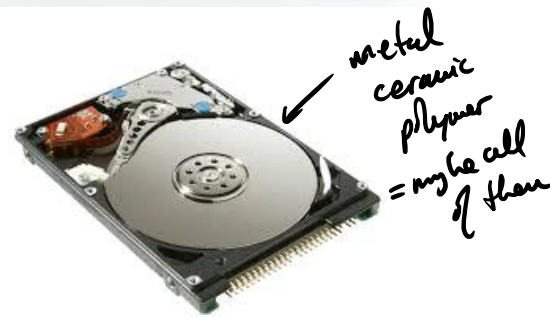


Re-Introduction

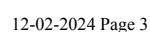
December 2, 2024 10:26 AM



calcium + silicon
+ oxygen → concrete



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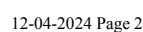


APS110H1f2024 December 4, 2024

December 4, 2024 8:13 AM

Re-introduction: → *next page*

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PERIODIC TABLE OF ELEMENTS

<div>pub - nm → can - m</div> <div>"close" "larger"</div> <div>PubChem</div>																		2 He Helium 140					
<div>Atomic Number</div> <div>Symbol</div> <div>Name</div> <div>Atomic Radius (van der Waals), pm</div> <div>piconeter</div>																		5 B Boron 192	6 C Carbon 170	7 N Nitrogen 155	8 O Oxygen 152	9 F Fluorine 135	10 Ne Neon 154
3 Li Lithium 182	4 Be Beryllium 153															13 Al Aluminum 184	14 Si Silicon 210	15 P Phosphorus 180	16 S Sulfur 180	17 Cl Chlorine 175	18 Ar Argon 188		
11 Na Sodium 227	12 Mg Magnesium 173	19 K Potassium 275	20 Ca Calcium 231	21 Sc Scandium 211	22 Ti Titanium 187	23 V Vanadium 179	24 Cr Chromium 189	25 Mn Manganese 197	26 Fe Iron 194	27 Co Cobalt 192	28 Ni Nickel 163	29 Cu Copper 140	30 Zn Zinc 139	31 Ga Gallium 187	32 Ge Germanium 211	33 As Arsenic 185	34 Se Selenium 190	35 Br Bromine 183	36 Kr Krypton 202				
37 Rb Rubidium 303	38 Sr Strontium 249	39 Y Yttrium 219	40 Zr Zirconium 186	41 Nb Niobium 207	42 Mo Molybdenum 209	43 Tc Technetium 209	44 Ru Ruthenium 207	45 Rh Rhodium 195	46 Pd Palladium 202	47 Ag Silver 172	48 Cd Cadmium 168	49 In Indium 193	50 Sn Tin 217	51 Sb Antimony 208	52 Te Tellurium 208	53 I Iodine 198	54 Xe Xenon 216						
55 Cs Cesium 343	56 Ba Barium 268	•	72 Hf Hafnium 212	73 Ta Tantalum 217	74 W Tungsten 210	75 Re Rhenium 217	76 Os Osmium 216	77 Ir Iridium 202	78 Pt Platinum 209	79 Au Gold 166	80 Hg Mercury 209	81 Tl Thallium 196	82 Pb Lead 202	83 Bi Bismuth 207	84 Po Polonium 197	85 At Astatine 202	86 Rn Radon 220						
87 Fr Francium 348	88 Ra Radium 283	**	104 Rf Rutherfordium 150	105 Db Dubnium 139	106 Sg Seaborgium 132	107 Bh Bohrium 128	108 Hs Hassium 126	109 Mt Meitnerium 128	110 Ds Darmstadtium 132	111 Rg Roentgenium 138	112 Cn Copernicium 147	113 Nh Nihonium 170	114 Fl Flerovium 180	115 Mc Moscovium 187	116 Lv Livermorium 183	117 Ts Tennessine 138	118 Og Oganesson						
		•	57 La Lanthanum 240	58 Ce Cerium 235	59 Pr Praseodymium 239	60 Nd Neodymium 229	61 Pm Promethium 236	62 Sm Samarium 229	63 Eu Europium 233	64 Gd Gadolinium 237	65 Tb Terbium 221	66 Dy Dysprosium 229	67 Ho Holmium 216	68 Er Erbium 235	69 Tm Thulium 227	70 Yb Ytterbium 242	71 Lu Lutetium 221						
		**	89 Ac Actinium 260	90 Th Thorium 237	91 Pa Protactinium 243	92 U Uranium 240	93 Np Neptunium 221	94 Pu Plutonium 243	95 Am Americium 244	96 Cm Curium 245	97 Bk Berkelium 244	98 Cf Californium 245	99 Es Einsteinium 245	100 Fm Fermium	101 Md Mendelevium	102 No Nobelium	103 Lr Lawrencium						

PERIODIC TABLE OF ELEMENTS

1 H Hydrogen 1s ¹		PubChem																2 He Helium 1s ²																						
3 Li Lithium [He]2s ¹		4 Be Beryllium [He]2s ²		1 H Hydrogen 1s ¹ Atomic Number Symbol Name Electron Configuration																		5 B Boron [He]2s ² 2p ¹	6 C Carbon [He]2s ² 2p ²	7 N Nitrogen [He]2s ² 2p ³	8 O Oxygen [He]2s ² 2p ⁴	9 F Fluorine [He]2s ² 2p ⁵	10 Ne Neon [He]2s ² 2p ⁶													
11 Na Sodium [Ne]3s ¹		12 Mg Magnesium [Ne]3s ²		21 Sc Scandium [Ar]3d ¹ 4s ²	22 Ti Titanium [Ar]3d ² 4s ²	23 V Vanadium [Ar]3d ³ 4s ²	24 Cr Chromium [Ar]3d ⁵ 4s ¹	25 Mn Manganese [Ar]3d ⁵ 4s ²	26 Fe Iron [Ar]3d ⁶ 4s ²	27 Co Cobalt [Ar]3d ⁷ 4s ²	28 Ni Nickel [Ar]3d ⁸ 4s ²	29 Cu Copper [Ar]3d ¹⁰ 4s ¹	30 Zn Zinc [Ar]3d ¹⁰ 4s ²	31 Ga Gallium [Ar]3d ¹⁰ 4s ² 4p ¹	32 Ge Germanium [Ar]3d ¹⁰ 4s ² 4p ²	33 As Arsenic [Ar]3d ¹⁰ 4s ² 4p ³	34 Se Selenium [Ar]3d ¹⁰ 4s ² 4p ⁴	35 Br Bromine [Ar]3d ¹⁰ 4s ² 4p ⁵	36 Kr Krypton [Ar]3d ¹⁰ 4s ² 4p ⁶	37 Rb Rubidium [Kr]5s ¹	38 Sr Strontium [Kr]5s ²	39 Y Yttrium [Kr]4d ¹ 5s ²	40 Zr Zirconium [Kr]4d ² 5s ²	41 Nb Niobium [Kr]4d ⁴ 5s ¹	42 Mo Molybdenum [Kr]4d ⁵ 5s ¹	43 Tc Technetium [Kr]4d ⁵ 5s ²	44 Ru Ruthenium [Kr]4d ⁷ 5s ¹	45 Rh Rhodium [Kr]4d ⁸ 5s ¹	46 Pd Palladium [Kr]4d ¹⁰	47 Ag Silver [Kr]4d ¹⁰ 5s ¹	48 Cd Cadmium [Kr]4d ¹⁰ 5s ²	49 In Indium [Kr]4d ¹⁰ 5s ² 5p ¹	50 Sn Tin [Kr]4d ¹⁰ 5s ² 5p ²	51 Sb Antimony [Kr]4d ¹⁰ 5s ² 5p ³	52 Te Tellurium [Kr]4d ¹⁰ 5s ² 5p ⁴	53 I Iodine [Kr]4d ¹⁰ 5s ² 5p ⁵	54 Xe Xenon [Kr]4d ¹⁰ 5s ² 5p ⁶			
55 Cs Cesium [Xe]6s ¹		56 Ba Barium [Xe]6s ²		72 Hf Hafnium [Xe]4f ¹⁴ 5d ² 6s ²		73 Ta Tantalum [Xe]4f ¹⁴ 5d ³ 6s ²	74 W Tungsten [Xe]4f ¹⁴ 5d ⁴ 6s ²	75 Re Rhenium [Xe]4f ¹⁴ 5d ⁵ 6s ²	76 Os Osmium [Xe]4f ¹⁴ 5d ⁶ 6s ²	77 Ir Iridium [Xe]4f ¹⁴ 5d ⁷ 6s ²	78 Pt Platinum [Xe]4f ¹⁴ 5d ⁹ 6s ¹	79 Au Gold [Xe]4f ¹⁴ 5d ¹⁰ 6s ¹	80 Hg Mercury [Xe]4f ¹⁴ 5d ¹⁰ 6s ²	81 Tl Thallium [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ¹	82 Pb Lead [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ²	83 Bi Bismuth [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ³	84 Po Polonium [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴	85 At Astatine [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁵	86 Rn Radon [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶	•		87 Fr Francium [Rn]7s ¹	88 Ra Radium [Rn]7s ²	•		104 Rf Rutherfordium [Rn]5f ¹⁴ 6d ² 7s ²	105 Db Dubnium [Rn]5f ¹⁴ 6d ³ 7s ²	106 Sg Seaborgium [Rn]5f ¹⁴ 6d ⁴ 7s ²	107 Bh Bohrium [Rn]5f ¹⁴ 6d ⁵ 7s ²	108 Hs Hassium [Rn]5f ¹⁴ 6d ⁶ 7s ²	109 Mt Meitnerium [Rn]5f ¹⁴ 6d ⁷ 7s ²	110 Ds Darmstadtium [Rn]5f ¹⁴ 6d ⁸ 7s ²	111 Rg Roentgenium [Rn]5f ¹⁴ 6d ⁹ 7s ²	112 Cn Copernicium [Rn]5f ¹⁴ 6d ¹⁰ 7s ²	113 Nh Nihonium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ¹	114 Fl Flerovium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ²	115 Mc Moscovium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ³	116 Lv Livermorium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁴	117 Ts Tennessine [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵	118 Og Oganesson [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁶
•		•		57 La Lanthanum [Xe]5d ¹ 6s ²		58 Ce Cerium [Xe]5d ¹ 6s ²	59 Pr Praseodymium [Xe]5d ¹ 6s ²	60 Nd Neodymium [Xe]5d ¹ 6s ²	61 Pm Promethium [Xe]5d ¹ 6s ²	62 Sm Samarium [Xe]5d ¹ 6s ²	63 Eu Europium [Xe]5d ¹ 6s ²	64 Gd Gadolinium [Xe]5d ¹ 6s ²	65 Tb Terbium [Xe]5d ¹ 6s ²	66 Dy Dysprosium [Xe]5d ¹ 6s ²	67 Ho Holmium [Xe]5d ¹ 6s ²	68 Er Erbium [Xe]5d ¹ 6s ²	69 Tm Thulium [Xe]5d ¹ 6s ²	70 Yb Ytterbium [Xe]5d ¹ 6s ²	71 Lu Lutetium [Xe]5d ¹ 6s ²	•																				
•		•		89 Ac Actinium [Rn]6d ¹ 7s ²		90 Th Thorium [Rn]6d ² 7s ²	91 Pa Protactinium [Rn]6d ¹ 7s ²	92 U Uranium [Rn]6d ³ 7s ²	93 Np Neptunium [Rn]6d ³ 7s ²	94 Pu Plutonium [Rn]6d ³ 7s ²	95 Am Americium [Rn]6d ³ 7s ²	96 Cm Curium [Rn]6d ³ 7s ²	97 Bk Berkelium [Rn]6d ³ 7s ²	98 Cf Californium [Rn]6d ³ 7s ²	99 Es Einsteinium [Rn]6d ³ 7s ²	100 Fm Fermium [Rn]6d ³ 7s ²	101 Md Mendelevium [Rn]6d ³ 7s ²	102 No Nobelium [Rn]6d ³ 7s ²	103 Lr Lawrencium [Rn]6d ³ 7s ²	•																				