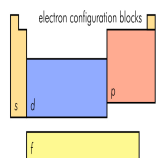


The Periodic Table of the Elements

													18																							
group 1																																				
period 1													2																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1.00794 1.008 1.00794 H Hydrogen 1</td> <td colspan="11"></td> <td style="text-align: center;">4.002602 4.002602 4.002602 He Helium 2</td> </tr> </table>													1.00794 1.008 1.00794 H Hydrogen 1												4.002602 4.002602 4.002602 He Helium 2											
1.00794 1.008 1.00794 H Hydrogen 1												4.002602 4.002602 4.002602 He Helium 2																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">6.941 6.941 6.941 Li Lithium 3</td> <td style="text-align: center;">9.012182 9.012182 9.012182 Be Beryllium 4</td> <td colspan="10"></td> <td style="text-align: center;">10.811 10.811 10.811 B Boron 5</td> <td style="text-align: center;">12.0107 12.0107 12.0107 C Carbon 6</td> <td style="text-align: center;">14.0067 14.0067 14.0067 N Nitrogen 7</td> <td style="text-align: center;">15.9994 15.9994 15.9994 O Oxygen 8</td> <td style="text-align: center;">18.998403 18.998403 18.998403 F Fluorine 9</td> <td style="text-align: center;">20.1797 20.1797 20.1797 Ne Neon 10</td> </tr> </table>													6.941 6.941 6.941 Li Lithium 3	9.012182 9.012182 9.012182 Be Beryllium 4											10.811 10.811 10.811 B Boron 5	12.0107 12.0107 12.0107 C Carbon 6	14.0067 14.0067 14.0067 N Nitrogen 7	15.9994 15.9994 15.9994 O Oxygen 8	18.998403 18.998403 18.998403 F Fluorine 9	20.1797 20.1797 20.1797 Ne Neon 10						
6.941 6.941 6.941 Li Lithium 3	9.012182 9.012182 9.012182 Be Beryllium 4											10.811 10.811 10.811 B Boron 5	12.0107 12.0107 12.0107 C Carbon 6	14.0067 14.0067 14.0067 N Nitrogen 7	15.9994 15.9994 15.9994 O Oxygen 8	18.998403 18.998403 18.998403 F Fluorine 9	20.1797 20.1797 20.1797 Ne Neon 10																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">22.98976 22.98976 22.98976 Na Sodium 11</td> <td style="text-align: center;">24.3050 24.3050 24.3050 Mg Magnesium 12</td> <td colspan="10"></td> <td style="text-align: center;">26.98153 26.98153 26.98153 Al Aluminum 13</td> <td style="text-align: center;">28.0855 28.0855 28.0855 Si Silicon 14</td> <td style="text-align: center;">30.97396 30.97396 30.97396 P Phosphorus 15</td> <td style="text-align: center;">32.065 32.065 32.065 S Sulfur 16</td> <td style="text-align: center;">35.453 35.453 35.453 Cl Chlorine 17</td> <td style="text-align: center;">39.948 39.948 39.948 Ar Argon 18</td> </tr> </table>													22.98976 22.98976 22.98976 Na Sodium 11	24.3050 24.3050 24.3050 Mg Magnesium 12											26.98153 26.98153 26.98153 Al Aluminum 13	28.0855 28.0855 28.0855 Si Silicon 14	30.97396 30.97396 30.97396 P Phosphorus 15	32.065 32.065 32.065 S Sulfur 16	35.453 35.453 35.453 Cl Chlorine 17	39.948 39.948 39.948 Ar Argon 18						
22.98976 22.98976 22.98976 Na Sodium 11	24.3050 24.3050 24.3050 Mg Magnesium 12											26.98153 26.98153 26.98153 Al Aluminum 13	28.0855 28.0855 28.0855 Si Silicon 14	30.97396 30.97396 30.97396 P Phosphorus 15	32.065 32.065 32.065 S Sulfur 16	35.453 35.453 35.453 Cl Chlorine 17	39.948 39.948 39.948 Ar Argon 18																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">39.0983 39.0983 39.0983 K Potassium 19</td> <td style="text-align: center;">40.078 40.078 40.078 Ca Calcium 20</td> <td style="text-align: center;">44.95591 44.95591 44.95591 Sc Scandium 21</td> <td style="text-align: center;">47.867 47.867 47.867 Ti Titanium 22</td> <td style="text-align: center;">50.9415 50.9415 50.9415 V Vanadium 23</td> <td style="text-align: center;">51.9962 51.9962 51.9962 Cr Chromium 24</td> <td style="text-align: center;">54.93804 54.93804 54.93804 Mn Manganese 25</td> <td style="text-align: center;">55.845 55.845 55.845 Fe Iron 26</td> <td style="text-align: center;">58.93319 58.93319 58.93319 Co Cobalt 27</td> <td style="text-align: center;">58.6934 58.6934 58.6934 Ni Nickel 28</td> <td style="text-align: center;">63.546 63.546 63.546 Cu Copper 29</td> <td style="text-align: center;">65.38 65.38 65.38 Zn Zinc 30</td> <td style="text-align: center;">69.723 69.723 69.723 Ga Gallium 31</td> <td style="text-align: center;">72.64 72.64 72.64 Ge Germanium 32</td> <td style="text-align: center;">74.92160 74.92160 74.92160 As Arsenic 33</td> <td style="text-align: center;">78.96 78.96 78.96 Se Selenium 34</td> <td style="text-align: center;">79.904 79.904 79.904 Br Bromine 35</td> <td style="text-align: center;">83.798 83.798 83.798 Kr Krypton 36</td> </tr> </table>													39.0983 39.0983 39.0983 K Potassium 19	40.078 40.078 40.078 Ca Calcium 20	44.95591 44.95591 44.95591 Sc Scandium 21	47.867 47.867 47.867 Ti Titanium 22	50.9415 50.9415 50.9415 V Vanadium 23	51.9962 51.9962 51.9962 Cr Chromium 24	54.93804 54.93804 54.93804 Mn Manganese 25	55.845 55.845 55.845 Fe Iron 26	58.93319 58.93319 58.93319 Co Cobalt 27	58.6934 58.6934 58.6934 Ni Nickel 28	63.546 63.546 63.546 Cu Copper 29	65.38 65.38 65.38 Zn Zinc 30	69.723 69.723 69.723 Ga Gallium 31	72.64 72.64 72.64 Ge Germanium 32	74.92160 74.92160 74.92160 As Arsenic 33	78.96 78.96 78.96 Se Selenium 34	79.904 79.904 79.904 Br Bromine 35	83.798 83.798 83.798 Kr Krypton 36						
39.0983 39.0983 39.0983 K Potassium 19	40.078 40.078 40.078 Ca Calcium 20	44.95591 44.95591 44.95591 Sc Scandium 21	47.867 47.867 47.867 Ti Titanium 22	50.9415 50.9415 50.9415 V Vanadium 23	51.9962 51.9962 51.9962 Cr Chromium 24	54.93804 54.93804 54.93804 Mn Manganese 25	55.845 55.845 55.845 Fe Iron 26	58.93319 58.93319 58.93319 Co Cobalt 27	58.6934 58.6934 58.6934 Ni Nickel 28	63.546 63.546 63.546 Cu Copper 29	65.38 65.38 65.38 Zn Zinc 30	69.723 69.723 69.723 Ga Gallium 31	72.64 72.64 72.64 Ge Germanium 32	74.92160 74.92160 74.92160 As Arsenic 33	78.96 78.96 78.96 Se Selenium 34	79.904 79.904 79.904 Br Bromine 35	83.798 83.798 83.798 Kr Krypton 36																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">85.4678 85.4678 85.4678 Rb Rubidium 37</td> <td style="text-align: center;">87.62 87.62 87.62 Sr Strontium 38</td> <td style="text-align: center;">88.90585 88.90585 88.90585 Y Yttrium 39</td> <td style="text-align: center;">91.224 91.224 91.224 Zr Zirconium 40</td> <td style="text-align: center;">92.90638 92.90638 92.90638 Nb Niobium 41</td> <td style="text-align: center;">95.96 95.96 95.96 Mo Molybdenum 42</td> <td style="text-align: center;">(98) (98) (98) Tc Technetium 43</td> <td style="text-align: center;">101.07 101.07 101.07 Ru Ruthenium 44</td> <td style="text-align: center;">102.9055 102.9055 102.9055 Rh Rhodium 45</td> <td style="text-align: center;">106.42 106.42 106.42 Pd Palladium 46</td> <td style="text-align: center;">107.8682 107.8682 107.8682 Ag Silver 47</td> <td style="text-align: center;">112.41 112.41 112.41 Cd Cadmium 48</td> <td style="text-align: center;">114.818 114.818 114.818 In Indium 49</td> <td style="text-align: center;">118.710 118.710 118.710 Sn Tin 50</td> <td style="text-align: center;">127.60 127.60 127.60 Sb Antimony 51</td> <td style="text-align: center;">127.60 127.60 127.60 Te Tellurium 52</td> <td style="text-align: center;">126.9044 126.9044 126.9044 I Iodine 53</td> <td style="text-align: center;">131.293 131.293 131.293 Xe Xenon 54</td> </tr> </table>													85.4678 85.4678 85.4678 Rb Rubidium 37	87.62 87.62 87.62 Sr Strontium 38	88.90585 88.90585 88.90585 Y Yttrium 39	91.224 91.224 91.224 Zr Zirconium 40	92.90638 92.90638 92.90638 Nb Niobium 41	95.96 95.96 95.96 Mo Molybdenum 42	(98) (98) (98) Tc Technetium 43	101.07 101.07 101.07 Ru Ruthenium 44	102.9055 102.9055 102.9055 Rh Rhodium 45	106.42 106.42 106.42 Pd Palladium 46	107.8682 107.8682 107.8682 Ag Silver 47	112.41 112.41 112.41 Cd Cadmium 48	114.818 114.818 114.818 In Indium 49	118.710 118.710 118.710 Sn Tin 50	127.60 127.60 127.60 Sb Antimony 51	127.60 127.60 127.60 Te Tellurium 52	126.9044 126.9044 126.9044 I Iodine 53	131.293 131.293 131.293 Xe Xenon 54						
85.4678 85.4678 85.4678 Rb Rubidium 37	87.62 87.62 87.62 Sr Strontium 38	88.90585 88.90585 88.90585 Y Yttrium 39	91.224 91.224 91.224 Zr Zirconium 40	92.90638 92.90638 92.90638 Nb Niobium 41	95.96 95.96 95.96 Mo Molybdenum 42	(98) (98) (98) Tc Technetium 43	101.07 101.07 101.07 Ru Ruthenium 44	102.9055 102.9055 102.9055 Rh Rhodium 45	106.42 106.42 106.42 Pd Palladium 46	107.8682 107.8682 107.8682 Ag Silver 47	112.41 112.41 112.41 Cd Cadmium 48	114.818 114.818 114.818 In Indium 49	118.710 118.710 118.710 Sn Tin 50	127.60 127.60 127.60 Sb Antimony 51	127.60 127.60 127.60 Te Tellurium 52	126.9044 126.9044 126.9044 I Iodine 53	131.293 131.293 131.293 Xe Xenon 54																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">132.9054 132.9054 132.9054 Cs Cesium 55</td> <td style="text-align: center;">137.327 137.327 137.327 Ba Barium 56</td> <td style="text-align: center;">174.9668 174.9668 174.9668 Lu Lutetium 57</td> <td style="text-align: center;">178.49 178.49 178.49 Hf Hafnium 58</td> <td style="text-align: center;">180.9478 180.9478 180.9478 Ta Tantalum 59</td> <td style="text-align: center;">183.84 183.84 183.84 W Tungsten 60</td> <td style="text-align: center;">186.207 186.207 186.207 Re Rhenium 61</td> <td style="text-align: center;">190.23 190.23 190.23 Os Osmium 62</td> <td style="text-align: center;">192.217 192.217 192.217 Ir Iridium 63</td> <td style="text-align: center;">195.084 195.084 195.084 Pt Platinum 64</td> <td style="text-align: center;">196.9665 196.9665 196.9665 Au Gold 65</td> <td style="text-align: center;">200.59 200.59 200.59 Hg Mercury 66</td> <td style="text-align: center;">204.3833 204.3833 204.3833 Tl Thallium 67</td> <td style="text-align: center;">207.2 207.2 207.2 Pb Lead 68</td> <td style="text-align: center;">208.9804 208.9804 208.9804 Bi Bismuth 69</td> <td style="text-align: center;">(210) (210) (210) Po Polonium 70</td> <td style="text-align: center;">(210) (210) (210) At Astatine 71</td> <td style="text-align: center;">(220) (220) (220) Rn Radon 72</td> </tr> </table>													132.9054 132.9054 132.9054 Cs Cesium 55	137.327 137.327 137.327 Ba Barium 56	174.9668 174.9668 174.9668 Lu Lutetium 57	178.49 178.49 178.49 Hf Hafnium 58	180.9478 180.9478 180.9478 Ta Tantalum 59	183.84 183.84 183.84 W Tungsten 60	186.207 186.207 186.207 Re Rhenium 61	190.23 190.23 190.23 Os Osmium 62	192.217 192.217 192.217 Ir Iridium 63	195.084 195.084 195.084 Pt Platinum 64	196.9665 196.9665 196.9665 Au Gold 65	200.59 200.59 200.59 Hg Mercury 66	204.3833 204.3833 204.3833 Tl Thallium 67	207.2 207.2 207.2 Pb Lead 68	208.9804 208.9804 208.9804 Bi Bismuth 69	(210) (210) (210) Po Polonium 70	(210) (210) (210) At Astatine 71	(220) (220) (220) Rn Radon 72						
132.9054 132.9054 132.9054 Cs Cesium 55	137.327 137.327 137.327 Ba Barium 56	174.9668 174.9668 174.9668 Lu Lutetium 57	178.49 178.49 178.49 Hf Hafnium 58	180.9478 180.9478 180.9478 Ta Tantalum 59	183.84 183.84 183.84 W Tungsten 60	186.207 186.207 186.207 Re Rhenium 61	190.23 190.23 190.23 Os Osmium 62	192.217 192.217 192.217 Ir Iridium 63	195.084 195.084 195.084 Pt Platinum 64	196.9665 196.9665 196.9665 Au Gold 65	200.59 200.59 200.59 Hg Mercury 66	204.3833 204.3833 204.3833 Tl Thallium 67	207.2 207.2 207.2 Pb Lead 68	208.9804 208.9804 208.9804 Bi Bismuth 69	(210) (210) (210) Po Polonium 70	(210) (210) (210) At Astatine 71	(220) (220) (220) Rn Radon 72																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(223) (223) (223) Fr Francium 73</td> <td style="text-align: center;">(226) (226) (226) Ra Radium 74</td> <td style="text-align: center;">(262) (262) (262) Lr Lawrencium 75</td> <td style="text-align: center;">(261) (261) (261) Rf Rutherfordium 76</td> <td style="text-align: center;">(262) (262) (262) Db Dubnium 77</td> <td style="text-align: center;">(266) (266) (266) Sg Seaborgium 78</td> <td style="text-align: center;">(264) (264) (264) Bh Bohrium 79</td> <td style="text-align: center;">(277) (277) (277) Hs Hassium 80</td> <td style="text-align: center;">(268) (268) (268) Mt Meitnerium 81</td> <td style="text-align: center;">(271) (271) (271) Ds Darmstadtium 82</td> <td style="text-align: center;">(272) (272) (272) Rg Roentgenium 83</td> <td style="text-align: center;">(285) (285) (285) Cn Copernicium 84</td> <td style="text-align: center;">(284) (284) (284) Uut Ununtrium 85</td> <td style="text-align: center;">(289) (289) (289) Uuq Ununquadium 86</td> <td style="text-align: center;">(288) (288) (288) Uup Ununpentium 87</td> <td style="text-align: center;">(292) (292) (292) Uuh Ununhexium 88</td> <td style="text-align: center;">(291) (291) (291) Uus Ununseptium 89</td> <td style="text-align: center;">(294) (294) (294) Uuo Ununoctium 90</td> </tr> </table>													(223) (223) (223) Fr Francium 73	(226) (226) (226) Ra Radium 74	(262) (262) (262) Lr Lawrencium 75	(261) (261) (261) Rf Rutherfordium 76	(262) (262) (262) Db Dubnium 77	(266) (266) (266) Sg Seaborgium 78	(264) (264) (264) Bh Bohrium 79	(277) (277) (277) Hs Hassium 80	(268) (268) (268) Mt Meitnerium 81	(271) (271) (271) Ds Darmstadtium 82	(272) (272) (272) Rg Roentgenium 83	(285) (285) (285) Cn Copernicium 84	(284) (284) (284) Uut Ununtrium 85	(289) (289) (289) Uuq Ununquadium 86	(288) (288) (288) Uup Ununpentium 87	(292) (292) (292) Uuh Ununhexium 88	(291) (291) (291) Uus Ununseptium 89	(294) (294) (294) Uuo Ununoctium 90						
(223) (223) (223) Fr Francium 73	(226) (226) (226) Ra Radium 74	(262) (262) (262) Lr Lawrencium 75	(261) (261) (261) Rf Rutherfordium 76	(262) (262) (262) Db Dubnium 77	(266) (266) (266) Sg Seaborgium 78	(264) (264) (264) Bh Bohrium 79	(277) (277) (277) Hs Hassium 80	(268) (268) (268) Mt Meitnerium 81	(271) (271) (271) Ds Darmstadtium 82	(272) (272) (272) Rg Roentgenium 83	(285) (285) (285) Cn Copernicium 84	(284) (284) (284) Uut Ununtrium 85	(289) (289) (289) Uuq Ununquadium 86	(288) (288) (288) Uup Ununpentium 87	(292) (292) (292) Uuh Ununhexium 88	(291) (291) (291) Uus Ununseptium 89	(294) (294) (294) Uuo Ununoctium 90																			

atomic mass: 55.845
 or most stable mass number: 26
 1st ionization energy: 762.5 kJ/mol
 electronegativity: 1.83
 chemical symbol: Fe
 name: Iron
 electron configuration: [Ar] 3d⁶ 4s²

- alkali metals
- alkaline metals
- other metals
- transition metals
- lanthanoids
- actinoids
- metalloids
- nonmetals
- halogens
- noble gases
- unknown elements
- radioactive elements have masses in parenthesis



- notes
- as of yet, elements 113-118 have no official name designated by the IUPAC.
 - 1 kJ/mol ≈ 96.485 eV.
 - all elements are implied to have an oxidation state of zero.

													18																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">138.9054 138.9054 138.9054 La Lanthanum 57</td> <td style="text-align: center;">140.116 140.116 140.116 Ce Cerium 58</td> <td style="text-align: center;">140.9076 140.9076 140.9076 Pr Praseodymium 59</td> <td style="text-align: center;">144.242 144.242 144.242 Nd Neodymium 60</td> <td style="text-align: center;">(145) (145) (145) Pm Promethium 61</td> <td style="text-align: center;">150.36 150.36 150.36 Sm Samarium 62</td> <td style="text-align: center;">151.964 151.964 151.964 Eu Europium 63</td> <td style="text-align: center;">157.25 157.25 157.25 Gd Gadolinium 64</td> <td style="text-align: center;">158.9253 158.9253 158.9253 Tb Terbium 65</td> <td style="text-align: center;">162.500 162.500 162.500 Dy Dysprosium 66</td> <td style="text-align: center;">164.9303 164.9303 164.9303 Ho Holmium 67</td> <td style="text-align: center;">167.259 167.259 167.259 Er Erbium 68</td> <td style="text-align: center;">168.9342 168.9342 168.9342 Tm Thulium 69</td> <td style="text-align: center;">173.054 173.054 173.054 Yb Ytterbium 70</td> </tr> </table>													138.9054 138.9054 138.9054 La Lanthanum 57	140.116 140.116 140.116 Ce Cerium 58	140.9076 140.9076 140.9076 Pr Praseodymium 59	144.242 144.242 144.242 Nd Neodymium 60	(145) (145) (145) Pm Promethium 61	150.36 150.36 150.36 Sm Samarium 62	151.964 151.964 151.964 Eu Europium 63	157.25 157.25 157.25 Gd Gadolinium 64	158.9253 158.9253 158.9253 Tb Terbium 65	162.500 162.500 162.500 Dy Dysprosium 66	164.9303 164.9303 164.9303 Ho Holmium 67	167.259 167.259 167.259 Er Erbium 68	168.9342 168.9342 168.9342 Tm Thulium 69	173.054 173.054 173.054 Yb Ytterbium 70						
138.9054 138.9054 138.9054 La Lanthanum 57	140.116 140.116 140.116 Ce Cerium 58	140.9076 140.9076 140.9076 Pr Praseodymium 59	144.242 144.242 144.242 Nd Neodymium 60	(145) (145) (145) Pm Promethium 61	150.36 150.36 150.36 Sm Samarium 62	151.964 151.964 151.964 Eu Europium 63	157.25 157.25 157.25 Gd Gadolinium 64	158.9253 158.9253 158.9253 Tb Terbium 65	162.500 162.500 162.500 Dy Dysprosium 66	164.9303 164.9303 164.9303 Ho Holmium 67	167.259 167.259 167.259 Er Erbium 68	168.9342 168.9342 168.9342 Tm Thulium 69	173.054 173.054 173.054 Yb Ytterbium 70																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(227) (227) (227) Ac Actinium 73</td> <td style="text-align: center;">(232.038) (232.038) (232.038) Th Thorium 74</td> <td style="text-align: center;">(231.038) (231.038) (231.038) Pa Protactinium 75</td> <td style="text-align: center;">(238.0289) (238.0289) (238.0289) U Uranium 76</td> <td style="text-align: center;">(237) (237) (237) Np Neptunium 77</td> <td style="text-align: center;">(244) (244) (244) Pu Plutonium 78</td> <td style="text-align: center;">(243) (243) (243) Am Americium 79</td> <td style="text-align: center;">(247) (247) (247) Cm Curium 80</td> <td style="text-align: center;">(247) (247) (247) Bk Berkelium 81</td> <td style="text-align: center;">(251) (251) (251) Cf Californium 82</td> <td style="text-align: center;">(252) (252) (252) Es Einsteinium 83</td> <td style="text-align: center;">(257) (257) (257) Fm Fermium 84</td> <td style="text-align: center;">(258) (258) (258) Md Mendelevium 85</td> <td style="text-align: center;">(259) (259) (259) No Nobelium 86</td> </tr> </table>													(227) (227) (227) Ac Actinium 73	(232.038) (232.038) (232.038) Th Thorium 74	(231.038) (231.038) (231.038) Pa Protactinium 75	(238.0289) (238.0289) (238.0289) U Uranium 76	(237) (237) (237) Np Neptunium 77	(244) (244) (244) Pu Plutonium 78	(243) (243) (243) Am Americium 79	(247) (247) (247) Cm Curium 80	(247) (247) (247) Bk Berkelium 81	(251) (251) (251) Cf Californium 82	(252) (252) (252) Es Einsteinium 83	(257) (257) (257) Fm Fermium 84	(258) (258) (258) Md Mendelevium 85	(259) (259) (259) No Nobelium 86						
(227) (227) (227) Ac Actinium 73	(232.038) (232.038) (232.038) Th Thorium 74	(231.038) (231.038) (231.038) Pa Protactinium 75	(238.0289) (238.0289) (238.0289) U Uranium 76	(237) (237) (237) Np Neptunium 77	(244) (244) (244) Pu Plutonium 78	(243) (243) (243) Am Americium 79	(247) (247) (247) Cm Curium 80	(247) (247) (247) Bk Berkelium 81	(251) (251) (251) Cf Californium 82	(252) (252) (252) Es Einsteinium 83	(257) (257) (257) Fm Fermium 84	(258) (258) (258) Md Mendelevium 85	(259) (259) (259) No Nobelium 86																			