

<b>1</b>	<b>H</b>	Hydrogen 1.007 94 $1s^1$
<b>Group 1</b>	<b>Group 2</b>	
<b>2</b>	<b>Li</b> Lithium 6.941 [He]2s <sup>1</sup>	<b>Be</b> Beryllium 9.012 182 [He]2s <sup>2</sup>
<b>3</b>		
<b>4</b>		
<b>5</b>	<b>Na</b> Sodium 22.989 770 [Ne]3s <sup>1</sup>	<b>Mg</b> Magnesium 24.3050 [Ne]3s <sup>2</sup>
<b>6</b>		
<b>7</b>	<b>K</b> Potassium 39.0983 [Ar]4s <sup>1</sup>	<b>Ca</b> Calcium 40.078 [Ar]4s <sup>2</sup>
<b>8</b>		
<b>9</b>	<b>Sc</b> Scandium 44.955 910 [Ar]3d <sup>1</sup> 4s <sup>2</sup>	<b>Ti</b> Titanium 47.867 [Ar]3d <sup>2</sup> 4s <sup>2</sup>
<b>10</b>		
<b>11</b>	<b>V</b> Vanadium 50.9415 [Ar]3d <sup>3</sup> 4s <sup>2</sup>	<b>Cr</b> Chromium 51.9961 [Ar]3d <sup>5</sup> 4s <sup>1</sup>
<b>12</b>		
<b>13</b>	<b>Mn</b> Manganese 54.938 049 [Ar]3d <sup>5</sup> 4s <sup>2</sup>	<b>Fe</b> Iron 55.845 [Ar]3d <sup>6</sup> 4s <sup>2</sup>
<b>14</b>		
<b>15</b>	<b>Co</b> Cobalt 58.933 200 [Ar]3d <sup>7</sup> 4s <sup>2</sup>	
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## Key:

Atomic number  
Symbol  
Name  
Average atomic mass  
Electron configuration

**C**  
Carbon  
12.0107  
[He]2s<sup>2</sup>2p<sup>2</sup>

Hydrogen  
Semiconductors  
(also known as metalloids)

### Metals

Alkali metals  
Alkaline-earth metals  
Transition metals  
Other metals

### Nonmetals

Halogens  
Noble gases  
Other nonmetals

<b>5</b>	<b>B</b> Boron 10.811 [He]2s <sup>2</sup> 2p <sup>1</sup>	<b>6</b>	<b>C</b> Carbon 12.0107 [He]2s <sup>2</sup> 2p <sup>2</sup>	<b>7</b>	<b>N</b> Nitrogen 14.0067 [He]2s <sup>2</sup> 2p <sup>3</sup>	<b>8</b>	<b>O</b> Oxygen 15.9994 [He]2s <sup>2</sup> 2p <sup>4</sup>	<b>9</b>	<b>F</b> Fluorine 18.998 4032 [He]2s <sup>2</sup> 2p <sup>5</sup>	<b>10</b>	<b>Ne</b> Neon 20.1797 [He]2s <sup>2</sup> 2p <sup>6</sup>
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<b>Group 1</b>	<b>Group 2</b>	<b>Group 3</b>	<b>Group 4</b>	<b>Group 5</b>	<b>Group 6</b>	<b>Group 7</b>	<b>Group 8</b>	<b>Group 9</b>	<b>Group 10</b>	<b>Group 11</b>	<b>Group 12</b>	<b>Group 13</b>	<b>Group 14</b>	<b>Group 15</b>	<b>Group 16</b>	<b>Group 17</b>				
<b>1</b>	<b>H</b> Hydrogen 1.007 94 $1s^1$	<b>Li</b> Lithium 6.941 [He]2s <sup>1</sup>	<b>Be</b> Beryllium 9.012 182 [He]2s <sup>2</sup>	<b>Sc</b> Scandium 44.955 910 [Ar]3d <sup>1</sup> 4s <sup>2</sup>	<b>Ti</b> Titanium 47.867 [Ar]3d <sup>2</sup> 4s <sup>2</sup>	<b>V</b> Vanadium 50.9415 [Ar]3d <sup>3</sup> 4s <sup>2</sup>	<b>Cr</b> Chromium 51.9961 [Ar]3d <sup>5</sup> 4s <sup>1</sup>	<b>Mn</b> Manganese 54.938 049 [Ar]3d <sup>5</sup> 4s <sup>2</sup>	<b>Fe</b> Iron 55.845 [Ar]3d <sup>6</sup> 4s <sup>2</sup>	<b>Co</b> Cobalt 58.933 200 [Ar]3d <sup>7</sup> 4s <sup>2</sup>	<b>Ni</b> Nickel 58.6934 [Ar]3d <sup>8</sup> 4s <sup>2</sup>	<b>Cu</b> Copper 63.546 [Ar]3d <sup>10</sup> 4s <sup>1</sup>	<b>Zn</b> Zinc 65.409 [Ar]3d <sup>10</sup> 4s <sup>2</sup>	<b>Ga</b> Gallium 69.723 [Ar]3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>1</sup>	<b>Al</b> Aluminum 26.981 538 [Ne]3s <sup>2</sup> 3p <sup>1</sup>	<b>Si</b> Silicon 28.0855 [Ne]3s <sup>2</sup> 3p <sup>2</sup>	<b>P</b> Phosphorus 30.973 761 [Ne]3s <sup>2</sup> 3p <sup>3</sup>	<b>S</b> Sulfur 32.065 [Ne]3s <sup>2</sup> 3p <sup>4</sup>	<b>Cl</b> Chlorine 35.453 [Ne]3s <sup>2</sup> 3p <sup>5</sup>	<b>Ar</b> Argon 39.948 [Ne]3s <sup>2</sup> 3p <sup>6</sup>
<b>2</b>																				
<b>3</b>	<b>Na</b> Sodium 22.989 770 [Ne]3s <sup>1</sup>	<b>Mg</b> Magnesium 24.3050 [Ne]3s <sup>2</sup>	<b>Sc</b> Scandium 44.955 910 [Ar]3d <sup>1</sup> 4s <sup>2</sup>	<b>Ti</b> Titanium 47.867 [Ar]3d <sup>2</sup> 4s <sup>2</sup>	<b>V</b> Vanadium 50.9415 [Ar]3d <sup>3</sup> 4s <sup>2</sup>	<b>Cr</b> Chromium 51.9961 [Ar]3d <sup>5</sup> 4s <sup>1</sup>	<b>Mn</b> Manganese 54.938 049 [Ar]3d <sup>5</sup> 4s <sup>2</sup>	<b>Fe</b> Iron 55.845 [Ar]3d <sup>6</sup> 4s <sup>2</sup>	<b>Co</b> Cobalt 58.933 200 [Ar]3d <sup>7</sup> 4s <sup>2</sup>	<b>Ni</b> Nickel 58.6934 [Ar]3d <sup>8</sup> 4s <sup>2</sup>	<b>Cu</b> Copper 63.546 [Ar]3d <sup>10</sup> 4s <sup>1</sup>	<b>Zn</b> Zinc 65.409 [Ar]3d <sup>10</sup> 4s <sup>2</sup>	<b>Ga</b> Gallium 69.723 [Ar]3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>1</sup>	<b>Al</b> Aluminum 26.981 538 [Ne]3s <sup>2</sup> 3p <sup>1</sup>	<b>Si</b> Silicon 28.0855 [Ne]3s <sup>2</sup> 3p <sup>2</sup>	<b>P</b> Phosphorus 30.973 761 [Ne]3s <sup>2</sup> 3p <sup>3</sup>	<b>S</b> Sulfur 32.065 [Ne]3s <sup>2</sup> 3p <sup>4</sup>	<b>Cl</b> Chlorine 35.453 [Ne]3s <sup>2</sup> 3p <sup>5</sup>	<b>Ar</b> Argon 39.948 [Ne]3s <sup>2</sup> 3p <sup>6</sup>	
<b>4</b>																				
<b>5</b>	<b>Rb</b> Rubidium 85.4678 [Kr]5s <sup>1</sup>	<b>Sr</b> Strontium 87.62 [Kr]5s <sup>2</sup>	<b>Y</b> Yttrium 88.905 85 [Kr]4d <sup>1</sup> 5s <sup>2</sup>	<b>Zr</b> Zirconium 91.224 [Kr]4d <sup>2</sup> 5s <sup>2</sup>	<b>Nb</b> Niobium 92.906 38 [Kr]4d <sup>4</sup> 5s <sup>1</sup>	<b>Mo</b> Molybdenum 95.94 [Kr]4d <sup>5</sup> 5s <sup>1</sup>	<b>Tc</b> Technetium (98) [Kr]4d <sup>6</sup> 5s <sup>1</sup>	<b>Ru</b> Ruthenium 101.07 [Kr]4d <sup>7</sup> 5s <sup>1</sup>	<b>Rh</b> Rhodium 102.905 50 [Kr]4d <sup>8</sup> 5s <sup>1</sup>	<b>Pd</b> Palladium 106.42 [Kr]4d <sup>10</sup> 5s <sup>0</sup>	<b>Ag</b> Silver 107.8682 [Kr]4d <sup>10</sup> 5s <sup>1</sup>	<b>Cd</b> Cadmium 112.411 [Kr]4d <sup>10</sup> 5s <sup>2</sup>	<b>In</b> Indium 114.818 [Kr]4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>1</sup>	<b>Sn</b> Tin 118.710 [Kr]4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>2</sup>	<b>Sb</b> Antimony 121.760 [Kr]4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>3</sup>	<b>Te</b> Tellurium 127.60 [Kr]4d <sup>10&lt;/sup</sup>				