

X

Li – Lithium

Atomic number 3
Physical State solid
Density 0.534 g/cm³
Conductivity good
Melting Point 180°C
Color silver
Reactivity very reactive

Period 2

Electron per shell 2, 1

Be – Beryllium

Physical State solid
Density 1.85 g/cm³
Conductivity excellent
Melting Point 1287°C
Color gray
Reactivity reactive
Ionization energy 9.322

Period 2

Na – Sodium

Atomic number 11
Physical State solid
Density 0.971 g/cm³
Conductivity good
Melting Point 98 °C
Color silver
Reactivity very reactive
Ionization energy 5.139

Electron per shell 2, 8, 1

X

K – Potassium

Atomic number 19
Density 0.86 g/cm³
Conductivity good
Melting Point 63 °C
Color silver
Reactivity very reactive

Period 4

Electron per shell 2, 8, 8, 1

Ca – Calcium

Atomic number 20
Density 1.57 g/cm³
Conductivity good
Melting Point 845 °C
Color silvery white
Reactivity reactive
Ionization energy 6.113

Period 4

X

Sr – Strontium

Atomic number 38
Physical State solid
Conductivity good
Melting Point 769°C
Color silvery white
Reactivity very reactive
Ionization energy 5.695
Group 2
Electron per shell 2, 8, 18, 8, 2

Cs – Cesium

Atomic number 55
Physical State solid
Density 1.87 g/cm³
Conductivity good
Melting Point 29°C
Color silvery white
Reactivity very reactive
Electron per shell 2, 8, 18, 18, 8, 1

Ba – Barium


Atomic number 56
Physical State solid
Density 3.6 g/cm³
Conductivity good
Melting Point 710°C
Color silvery white
Reactivity reactive
Electron per shell 2, 8, 18, 18, 8, 2

Fr - Francium

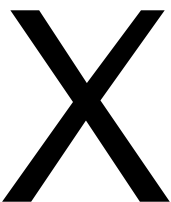
Atomic number 87
Physical State gas
Density 2.9 g/cm³
Conductivity good
Melting Point 30°C
Reactivity very reactive
Electron per shell 2, 8, 18, 32, 18, 8, 1

R – Radium

Atomic number 88
Physical State solid
Density 7.31 g/cm³
Conductivity medium
Melting Point 157°C
Color silvery white
Ionization energy 5.786
Electrons per shell 2, 8, 18, 32, 18, 8, 2

<p>N – Nitrogen</p> <p>Atomic number 7</p> <p>Physical State gas</p> <p>Density 0.00125 g/cm³</p> <p>Conductivity poor</p> <p>Melting Point -210°C</p> <p>Color colorless</p> <p>Ionization energy 14.534</p>	<p>O – Oxygen</p> <p>Atomic number 8</p> <p>Physical State gas</p> <p>Density 0.0013 g/cm³</p> <p>Conductivity poor</p> <p>Melting Point -219°C</p> <p>Color colorless</p> <p>Reactivity reactive</p> <p>Ionization energy 13.618</p>
<p>P – Phosphorus</p> <p>Atomic number 15</p> <p>Physical State solid</p> <p>Density 1.823 g/cm³</p> <p>Conductivity poor</p> <p>Melting Point 44.2 °C</p> <p>Color white</p> <p>Ionization energy 10.486</p>	

<p>As – Arsenic</p> <p>Atomic number 33</p> <p>Physical State solid</p> <p>Density 5.776 g/cm³</p> <p>Conductivity poor</p> <p>Melting Point 817 °C</p> <p>Color gray</p> <p>Ionization energy 9.81</p>	<p>Se – Selenium</p> <p>Atomic number 34</p> <p>Physical State solid</p> <p>Density 4.81 g/cm³</p> <p>Conductivity semi-conduct</p> <p>Melting Point 221°C</p> <p>Color gray/red/black</p> <p>Reactivity reactive</p> <p>Ionization energy 9.752</p>
<p style="text-align: center;">X</p>	<p>Te - Tellurium</p> <p>Atomic number 52</p> <p>Physical State solid</p> <p>Density 6.24 g/cm³</p> <p>Conductivity semi-conduct</p> <p>Melting Point 450°C</p> <p>Color silvery gray</p> <p>Reactivity reactive</p> <p>Ionization energy 9.009</p>
<p>Br - Bromine</p> <p>Atomic number 35</p> <p>Physical State gas</p> <p>Density 3.12 g/cm³</p> <p>Conductivity very poor</p> <p>Melting Point -7.2°C</p> <p>Color reddish brown</p> <p>Reactivity very reactive</p> <p>Ionization energy 11.814</p>	<p style="text-align: center;">X</p>
<p>I – Iodine</p> <p>Atomic number 53</p> <p>Physical State solid</p> <p>Density 4.93 g/cm³</p> <p>Conductivity very poor</p> <p>Melting Point 113.5°C</p> <p>Color blue-black</p> <p>Reactivity very reactive</p> <p>Ionization energy 10.451</p>	<p>Xe - Xenon</p> <p>Atomic number 54</p> <p>Physical State gas</p> <p>Conductivity very poor</p> <p>Melting Point -119.9°C</p> <p>Color colorless</p> <p>Reactivity almost none</p> <p>Ionization energy 12.13</p> <p>Electron per shell 2, 8,18,18, 8</p>

Cut	<p>He – Helium</p> <p>Atomic number 2 Physical State gas Conductivity very poor Melting Point -272°C Color colorless Reactivity almost none</p> <p>Ionization energy 24.587</p> <p>Electron per shell 2</p>
	<p>Ne – Neon</p> <p>Atomic number 10 Conductivity very poor Melting Point -249°C Color colorless Reactivity almost none</p> <p>Ionization energy 21.564</p> <p>Electron per shell 2, 8</p>
<p>Cl – Chlorine</p> <p>Atomic number 17 Physical State gas Density 0.00321 g/cm³ Conductivity very poor Melting Point -101°C Color greenish yellow Reactivity very reactive</p> <p>Ionization energy 12.967</p>	<p>Ar – Argon</p> <p>Atomic number 18 Conductivity very poor Melting Point -189.2°C Color colorless Reactivity almost none</p> <p>Ionization energy 15.759</p> <p>Electron per shell 2, 8, 8</p>


<p>Unknown #1</p> <p>Atomic number ?</p> <p>Physical State solid</p> <p>Density 1.74 g/cm³</p> <p>Conductivity good</p> <p>Melting Point 651 °C</p> <p>Color silvery white</p> <p>Reactivity reactive</p> <p>Ionization energy 7.646</p> <p>Electron per shell 2, 8, 2</p>	<p>Unknown #2</p> <p>Atomic number ?</p> <p>Physical State gas</p> <p>Density 0.00170 g/cm³</p> <p>Conductivity very poor</p> <p>Melting Point -219.6 °C</p> <p>Color pale yellow</p> <p>Reactivity very reactive</p> <p>Ionization energy 17.422</p>	<p>Unknown #3</p> <p>Atomic number ?</p> <p>Physical State solid - liquid</p> <p>Density 1.53 g/cm³</p> <p>Conductivity good</p> <p>Melting Point 39 °C</p> <p>Color silvery white</p> <p>Reactivity very reactive</p> <p>Ionization energy 4.177</p>
<p>Unknown #4</p> <p>Atomic number ?</p> <p>Physical State gas</p> <p>Conductivity very poor</p> <p>Melting Point -156.6 °C</p> <p>Color colorless</p> <p>Reactivity almost none</p> <p>Ionization energy 13.999</p> <p>Electron per shell 2, 8, 18, 8</p>	<p>Unknown #5</p> <p>Atomic number ?</p> <p>Physical State solid</p> <p>Density 1.96 g/cm³</p> <p>Conductivity poor</p> <p>Melting Point 115 °C</p> <p>Color yellow</p> <p>Reactivity reactive</p> <p>Ionization energy 10.36</p>	<p>Unknown #6</p> <p>Atomic number ?</p> <p>Physical State solid</p> <p>Density 6.69 g/cm³</p> <p>Conductivity semi-conductor</p> <p>Melting Point 631 °C</p> <p>Color bluish-white</p> <p>Ionization energy 8.641</p> <p>Metalloid</p>
<p>Unknown #7</p> <p>Atomic number ?</p> <p>Physical State solid</p> <p>Density 5.32 g/cm³</p> <p>Conductivity semi-conductor</p> <p>Melting Point 937 °C</p> <p>Color gray</p> <p>Ionization energy 7.899</p> <p>Metalloid</p>	<p>Unknown #8</p> <p>Atomic number ?</p> <p>Physical State gas</p> <p>Density 0.0898 g/cm³</p> <p>Melting Point - 259.16 °C</p> <p>Color colorless gas</p> <p>Reactivity very reactive</p> <p>Period 1</p> <p>Electron per shell 1</p>	<p>Cut Single BOXES</p>

CUT single boxes out

<p>Sc – Scandium Atomic number 21 Physical State solid Density 2.98 g/cm³ Melting Point 1541 °C Boiling Point 2836 °C Color silvery – white</p> <p>Period 4</p>	<p>Ti – Titanium Atomic number 22 Physical State solid Density 4.50 g/cm³ Melting Point 1668 °C Color silvery grey-white</p> <p>Period 4</p>	
<p>Y - Yttrium Atomic number 39 Physical State solid Density 4.47 g/cm³ Melting Point 1526 °C Color silvery – white</p> <p>Period 5</p>	<p>Zr – Zirconium Atomic number 40 Physical State solid Density 6.52 g/cm³ Melting Point 1855 °C Color silvery – white</p> <p>Period 5</p>	<p>Cut 4 boxes here</p>
<p>V – Vanadium Atomic number 23 Physical State solid Density 6.0 g/cm³ Melting Point 1910 °C Color Blue-silver-grey-metallic</p>	<p>Cr - Chromium Atomic number 24 Physical State solid Density 7.19 g/cm³ Melting Point 2180 °C Color silvery metallic</p>	
<p>Nb – Niobium Atomic number 41 Physical State solid Density 8.57 g/cm³ Melting Point 2477 °C Color grey - metallic bluish-when oxidized</p>	<p>Mo - Molybdenum Atomic number 42 Physical State solid Density 10.28 g/cm³ Melting Point 2623 °C Color grey – metallic</p>	<p>Cut 4 boxes here</p>

<p>Mn – Manganese</p> <p>Atomic number 25</p> <p>Physical State solid</p> <p>Density 7.21g/cm³</p> <p>Melting Point 1519°C</p> <p>Color silvery metallic</p> <p>Period 4</p>	<p>Fe – Iron</p> <p>Atomic number 26</p> <p>Physical State solid</p> <p>Density 7.8 g/cm³</p> <p>Melting Point 1538 °C</p> <p>Color lustrous metallic with a grayish tinge</p>	
<p>Tc – Technetium</p> <p>Atomic number 43</p> <p>Physical State solid</p> <p>Density 11 g/cm³</p> <p>Melting Point 2157 °C</p> <p>Color shiny gray metal</p> <p>Period 5</p>	<p>Ru – Ruthenium</p> <p>Atomic number 44</p> <p>Physical State solid</p> <p>Density 12.45 g/cm³</p> <p>Melting Point 2334 °C</p> <p>Color silvery white metallic</p>	<p>Cut 4 boxes here</p>
<p>Co – Cobalt</p> <p>Atomic number 27</p> <p>Physical State solid</p> <p>Density 8.9 g/cm³</p> <p>Melting Point 1495 °C</p> <p>Color hard lustrous bluish gray metal</p>	<p>Ni – Nickel</p> <p>Atomic number 28</p> <p>Physical State solid</p> <p>Density 8.908 g/cm³</p> <p>Melting Point 1455 °C</p> <p>Color lustrous, metallic, and silver with a gold tinge</p> <p>Period 4</p>	
<p>Rh – Rhodium</p> <p>Atomic number 45</p> <p>Physical State solid</p> <p>Density 12.41 g/cm³</p> <p>Melting Point 1964 °C</p> <p>Color silvery white metallic</p>	<p>Pd – Palladium</p> <p>Atomic number 46</p> <p>Physical State solid</p> <p>Density 12.02 g/cm³</p> <p>Melting Point 1554.9 °C</p> <p>Color silvery white</p> <p>Period 5</p>	<p>Cut 4 boxes here</p>

<p>Cu – Copper</p> <p>Atomic number 29</p> <p>Physical State solid</p> <p>Density 8.96</p> <p>g/cm³</p> <p>Melting Point 1084 °C</p> <p>Color red – orange</p> <p>metallic luster</p> <p>Group 11</p>	<p>Zn – Zinc</p> <p>Atomic number 30</p> <p>Physical State solid</p> <p>Density 7.14 g/cm³</p> <p>Melting Point 419.5 °C</p> <p>Color silver - gray</p> <p>Group 12</p>
<p>Ag – Silver</p> <p>Atomic number 47</p> <p>Physical State solid</p> <p>Density 10.49</p> <p>g/cm³</p> <p>Melting Point 961.7 °C</p> <p>Color lustrous white metal</p> <p>Group 11</p>	<p>Cd – Cadmium</p> <p>Atomic number 48</p> <p>Physical State solid</p> <p>Density 8.65 g/cm³</p> <p>Melting Point 321 °C</p> <p>Color silvery bluish-gray metallic</p> <p>Group 12</p>

<p>B – Boron</p> <p>Atomic number 5</p> <p>Physical State solid</p> <p>Density 2.34 g/cm³</p> <p>Conductivity poor at r.t.</p> <p>Melting Point 2076°C</p> <p>Color brown</p> <p>Ionization energy 8.298</p>	<p>C – Carbon</p> <p>Atomic number 6</p> <p>Physical State solid</p> <p>Density 2.10 g/cm³</p> <p>Conductivity good</p> <p>Melting Point 3550°C</p> <p>Color black</p> <p>Ionization energy 11.26</p>
<p>Al – Aluminum</p> <p>Atomic number 13</p> <p>Physical State solid</p> <p>Density 2.7 g/cm³</p> <p>Conductivity high</p> <p>Melting Point 303°C</p> <p>Color silvery white</p> <p>Ionization energy 5.986</p>	<p>Si – Silicon</p> <p>Atomic number 14</p> <p>Physical State solid</p> <p>Density 2.33g/cm³</p> <p>Conductivity semi-conductor</p> <p>Melting Point 1410°C</p> <p>Color gray</p> <p>Ionization energy 8.151</p>
<p>Cut</p>	

<p>Ga – Gallium</p> <p>Atomic number 31 Physical State solid Density 5.904 g/cm³ Conductivity medium Melting Point 30°C Color silvery Ionization energy 5.999</p>	<p>Cut</p>
<p>In – Indium</p> <p>Atomic number 49 Physical State solid Density 7.31 g/cm³ Conductivity medium Melting Point 157°C Color silvery white Ionization energy 5.786</p> <p>Group 13</p>	<p>Sn – Tin</p> <p>Atomic number 50 Physical State solid Density 7.31 g/cm³ Conductivity good Melting Point 232°C Color silver Ionization energy 7.344</p>
<p>Tl – Thallium</p> <p>Atomic number 81 Physical State solid Density 11.85 g/cm³ Conductivity good Melting Point 579°C Color silvery white</p>	<p>Pb – Lead</p> <p>Atomic number 82 Physical State solid Density 11.34 g/cm³ Conductivity good Melting Point 327°C Color blueish white</p>