

# Annotated periodic table of the elements

<b>H</b>	<b>He</b>
<b>Hydrogen</b>	<b>Helium</b>
Symbol: H	Symbol: He
Atomic number: 1	Atomic number: 2
Group: 1	Group: 18
Block: s	Block: s
Period: 1	Period: 1
Valence electrons: 1	Valence electrons: 2
Electronegativity: 3.00	Electronegativity: 2.60
Melting point: -259 °C	Melting point: -270 °C
Boiling point: -257 °C	Boiling point: -253 °C
Density: 0.089 g/cm³	Density: 0.179 g/cm³
State at room temperature: Gas	State at room temperature: Gas
Notes: First element. Nonmetal.	Notes: First element. Nonmetal.
<b>Group names:</b>	
1. Hydrogen & the alkali metals	14. Crystalline
2. Alkaline earth metals	15. Prolatogens
11. Noble gases	16. Chalcogens
12. Halogens	17. Halogens
13. Transition metals	18. Helium group
<b>Periods 3 to 10 are named after them:</b>	
<b>First members i.e. Group 1 in the scandium group:</b>	
Scandium	Titanium
Yttrium	Zirconium
Lanthanum	Hafnium
Actinium	Rutherfordium
Dysprosium	Moscovium
Praseodymium	Rubidium
Neodymium	Cesium
<b>Atomic number:</b>	
<b>Elemental symbol:</b>	
<b>Atomic weight:</b>	
<b>Element name:</b>	
<b>Block letters:</b>	
<b>Period:</b>	
<b>Group:</b>	
<b>Valence electrons:</b>	
<b>Electronegativity:</b>	
<b>Melting point:</b>	
<b>Boiling point:</b>	
<b>Density:</b>	
<b>State at room temperature:</b>	
<b>Notes:</b>	

## CLASS COMPARTMENTS

Metals		Nonmetals
Alkali metals	Alkaline earth metals	
Post-transition metals	Noble metals	
Actinides	Actinides	
Transition metals	Post-transition metals	
Post-transition metals	Noble metals	
Actinides	Actinides	

Note: [Ru-Pt: Os-Au] Noble gas

<b>Metals</b>	<b>Nonmetals</b>
Alkali metals	Alkaline earth metals
Post-transition metals	Noble metals
Actinides	Actinides
Transition metals	Post-transition metals
Post-transition metals	Noble metals
Actinides	Actinides

**Reactive**

**Inert**  
Reactions are likely to be either a neutralization or acid-base reaction.

## Active metals

### ■ Alkali metals

Light, reactive, mostly of low mechanical strength, melting and boiling points. The group 1 members are easily cut with a knife. Only Ba, Mg and Al have any structural uses. Most form basic oxides (Ba and Sr are amphotropic).

### ■ Noble metals

Usually reactive (Cu, Cr and Ti), but many are heavier, and they form mostly ionic-covalent compounds. Similar to one another, e.g. La to Lu (alkali earth metals), and fairly far separate for that reason. Abundant but widely dispersed. Commercially viable concentrations are rare. Oxides are strong to moderately basic. Sc, Yb and Lu exhibit weak amphotropism.

### ■ Actinides

Soft, dense and reactive metals, these from Es onwards are synthetic. Early actinides (Ce-Lu) show some similarities to lanthanides and form basic, amphotropic, or acidic oxides; late actinides are more like lanthanides. Many actinides form covalent compounds.

■ **Transition metals**  
Moderate to high density metals, with high melting and boiling points, many have high hardness and mechanical strength. Those from Al onwards are synthetic. Chemically show variable valency and strong tendency to form coordination and colored compounds. Oxides are basic, amphotropic or acidic, depending on oxidation state.

■ **Noble metals**  
Reacted to convert and oxidize, unlike base metals such as Fe, Ni, Cu and Zn. Commonly found together in native form. Good catalytic properties. Very weakly electronegative. Insoluble oxides.

■ **Post-transition metals**  
Soft or brittle, low strength, and with melting points lower than transition metals. Covalent structures tend to show directional bonding, with generally greater covalency or fewer nearest neighbours than other metals. All used or found as soft metal lubricants. Most are chemically weak; minority are moderately electronegative. Characterized by varying degrees of covalent bonding tendencies, amphotropism, and ionic species such as zirconia, titanates, and vanadates.

## Metals

### ■ **Metals**

■ **Metals**: Moderately to high density metals, with high melting and boiling points, many have high hardness and mechanical strength. Those from Al onwards are synthetic. Chemically show variable valency and strong tendency to form coordination and colored compounds. Oxides are basic, amphotropic or acidic, depending on oxidation state.

### ■ **Intermediate nonmetals**

■ **Intermediate nonmetals**: Li and Na are alkaline metals; C, N, and Si are metallic-looking solids while O is yellow. The latter four are brittle but all except Si are metallic, plastic or ductile forms. Moderate to high ionization energies, low to high electron affinities, moderate to high electronegativity values, relatively poor to moderately strong oxidizing agents, tend to form covalent or metallic to semi-metallic compounds with metals. Their oxides are acids, or neutral ( $\text{H}_2\text{O}$ ,  $\text{CO}$ ,  $\text{NO}$ ,  $\text{N}_2\text{O}$ ).

\* As does F, the most stable form in ambient conditions

### ■ **Group 18**

The noble gases (Ar, Ne, Kr, Xe, Rn, O<sub>3</sub>F<sub>2</sub>) are the most inert elements known. They do not react with almost any other element. The first noble gas compound, of approximate composition  $\text{Ca}(\text{NPF}_5)_2$ , was not prepared until 1962. More than half a thousand noble gas compounds were synthesized in the ensuing half-century. Compounds of He, Ne, Ar, Kr and Rn, in ambient conditions, are not known.

**Reactive**

**Inert**  
Reactions are likely to be either a neutralization or acid-base reaction.

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**Denise Guinn,Rebecca Brewer,Rachel  
C. Lum**

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