

Period Table Trends

	Metals	Metalloids	Non-metals
State (STP)	Solid (except Mercury which is a liquid)	Solid at room temp	Most are gases, a few liquids and solids.
Lustre	Shiny	Shiny	Dull
Colour	Silver, gold, copper	Varies	Varies
Conductivity	All are good conductors	Poor conductors (semi-conductors)	Poor conductors
Ductility	Many are.	Not ductile	Not ductile
Malleability	Malleable.	brittle	brittle

Chemical Group	Number of Electrons in Outer Orbit	Common Physical Properties	Common Chemical Properties
Alkali Metals	1	Shiny, silvery, soft, low density (can float in water)	Extremely reactive – reacts with oxygen and with water.
Alkaline Earth Metals	2	Shiny, silvery, not soft, more dense than water usually.	Reactive, but not as reactive as group 1.
Halogens	7, or 17.	Found in different states: F, Cl = gases Br = liquid I = solid They have their own colours.	Extremely reactive. Rarely found in their elemental form in nature. Most are poisonous. (Except Iodine)
Noble Gases	2, 8, 18	Some glow when exposed to electricity, Colourless, odourless, tasteless	Non reactive Only Radon is dangerous.
Hydrogen*	1	Gas at room temp, less dense than air	Highly reactive (explosive)

*Note: Hydrogen is unique and belongs in a group by itself.