Group / Family

Period →

- Boiling points higher
- Conduct electricity
- Conduct thermal energy
- Densities are higher
- Ductile (can be drawn into wire)
- Left side of stairstep line
- Luster (shiny, reflective)
- Malleable (moldable)
- Melting points are higher
- Mercury is only liquid metal
- most are solid
- over 3/4 of the elements
- stronger than other groups

- 3/4 G
- Act as semiconductors
- Act like metals at high temps.
- Act like nonmetals at low temps
- Silicon is most abundant in this group.
- Touching stair step line
- Dull
- Right side of stairstep line
- Solid ones are dull
- Soft except diamond
- S Solid
- L Liquid
- G Gas

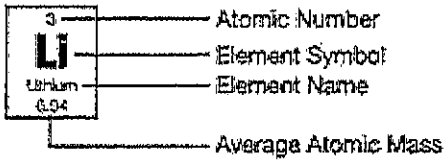
Key:

- Metals
- Metalloids
- Nonmetals

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Cerium 140.12	Praseodymium 140.91	Neodymium 144.24	Promethium (145)	Samarium 150.36	Europium 151.96	Gadolinium 157.25	Terbium 158.93	Dysprosium 162.50	Holmium 164.93	Erbium 167.26	Thulium 168.93	Ytterbium 173.04	Lutetium 174.97
90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
Thorium 232.04	Protactinium 231.04	Uranium 238.03	Neptunium (237)	Plutonium (244)	Americium (243)	Curium (247)	Berkelium (247)	Californium (251)	Einsteinium (252)	Fermium (257)	Mendelevium 168.93	Nobelium (259)	Lawrencium (262)

Group / Family

The Periodic Table of the Elements



Period →

- Do not conduct electricity
- Includes Hydrogen
- Insulators
- Many are gases
- Need these to live
- Poor conductors of heat
- Right side of stairstep line
- Solid ones are dull
- Soft except diamond
- S Solid
- L Liquid
- G Gas

Key:

- Metals
- Metalloids
- Nonmetals