

Period # → refers to the valence shell

**Drawing Atom Models  
(keep this handy)**

Closer to shell valence shell ⇒ more Rx

|   |    |    |   |    |    |
|---|----|----|---|----|----|
| 1 | H  | 1A | 2 | He | 2A |
| 2 | Li | 2A | 3 | Be | 3A |
| 3 | Na | 3A | 4 | Mg | 4A |
| 4 | Al | 5A | 5 | Si | 5A |
| 5 | S  | 6A | 6 | P  | 6A |
| 6 | Cl | 7A | 7 | S  | 7A |
| 7 | Ar | 8A | 8 | Ar | 8A |

Alkali metals  
1 ↓

Alkaline Earth metals  
2 ↓

Group # indicates the # valence e<sup>-</sup>

NON-METALS  
↑ (almost valence shell)

Metals  
↑  
Each atom of a group/family has the same # of valence e<sup>-</sup>  
(almost empty shell)

Valence e<sup>-</sup> + 1 as you move to the right

Halogens  
↑  
Each atom has a full valence shell  
NON-Reactive (Noble Gases)

+8 e<sup>-</sup>