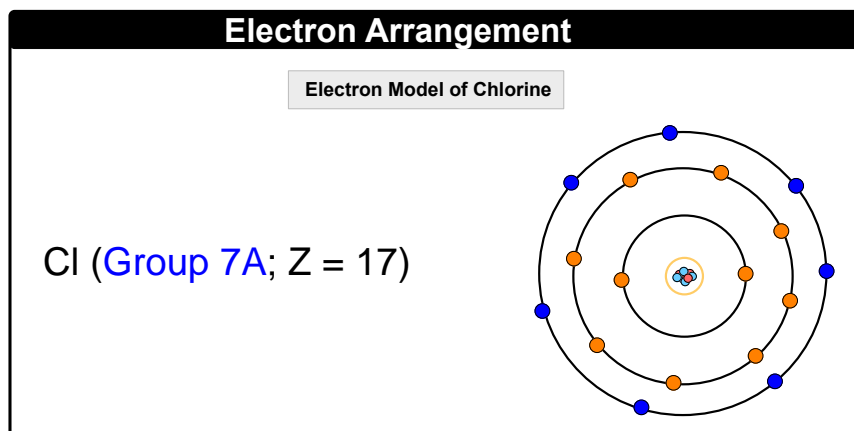


CONCEPT: VALENCE ELECTRONS OF ELEMENTS (SIMPLIFIED)

Main Group Elements

- For Main Group Elements, number of *valence electrons* = _____.
- **Valence Electrons:** _____ shell electrons involved in forming chemical bonds.
- **Inner Core Electrons:** Remaining Electrons that are not valence electrons.
 - _____ (Atomic #, Z) = **Valence Electrons** + **Inner Core Electrons**



EXAMPLE: How many inner core electrons would a silicon atom possess?

- a) 4 b) 10 c) 14 d) 8

PRACTICE: How many valence electrons does the carbon atom possess?

PRACTICE: How many inner core and valence electrons does the nitrogen atom possess?