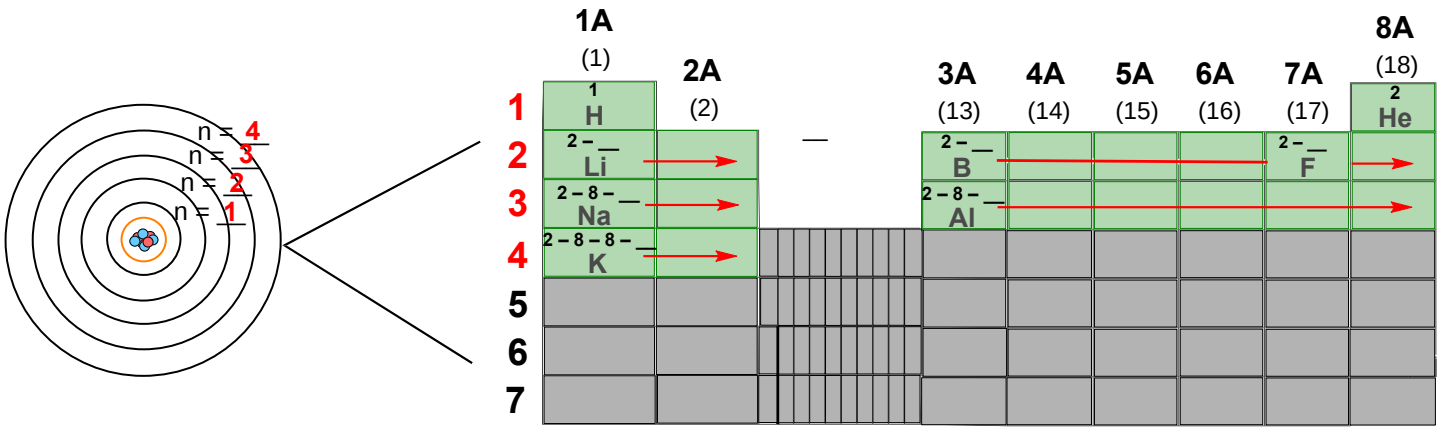
CONCEPT: ELECTRON ARRANGEMENTS

- The **Electron Arrangement** of an atom gives the number of _____ in each energy level.
  - □ Recall, as the value for *n* increases then both the size and energy level of an atomic orbital will ____.
  - □ At ____ energy levels the number of electrons within a given orbital will ____.
  - □ The energy levels (shell numbers) of an atom can be tied to the _____ or rows of the Periodic Table.

EXAMPLE: Complete the electron arrangements for the following elements of the Periodic Table.



□ Elements beyond Z > _____ can have partially filled orbitals and are beyond the scope of this course.

PRACTICE: Write the electron arrangement for the following element: Calcium (Z = 20)