

Element: Calcium, Ca Electron arrangement: 2.8.8.2

The shell theory:

- Electrons are arranged in shells or energy levels.
- The lowest energy levels are always filled first.
- Each shell has a limit to the number of electrons it can hold.
 - 1st shell maximum 2 electrons
 - 2^{nd} shell maximum 8 electrons 3^{rd} shell maximum 8 electrons

 - 4th shell maximum 18 electrons
- An atom with full shells cannot fit any more electrons into these shells. Therefore, the atom does not bond to other atoms.

eRevision

Supplementary Materials for

NEXUS