

Bell-Ringer: Go to All in Learning and complete the Chemistry 10/19- 10/20 Bell-Ringer

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LO - Students will be able to determine the electron configurations of all elements.

DOL - Students will be able to successfully write electron configurations at least 4/5 times.

Electron configuration of Calcium - going from boxes to formula:

The electron configuration of calcium is

How to write it as the noble gas configuration:

- This part of the electron configuration represents Ne. (It is the first 10 electrons because that's how many neon has). It is also important to note that all noble gasses end in  $s^2p^6$
- to write the electron configuration in the abbreviated simply replace the portion that is the noble gas with brackets

## Exceptions to the rule -

Stability is important and can cause the rules to alter slightly. Only when a "d" or an "f" is one electron away from being half or completely full, it will take an electron from the outside "s".

when "d" or "f" is full-1 or half - 1, it steals 1 from "s"

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## Electron Configuration and the Periodic Table

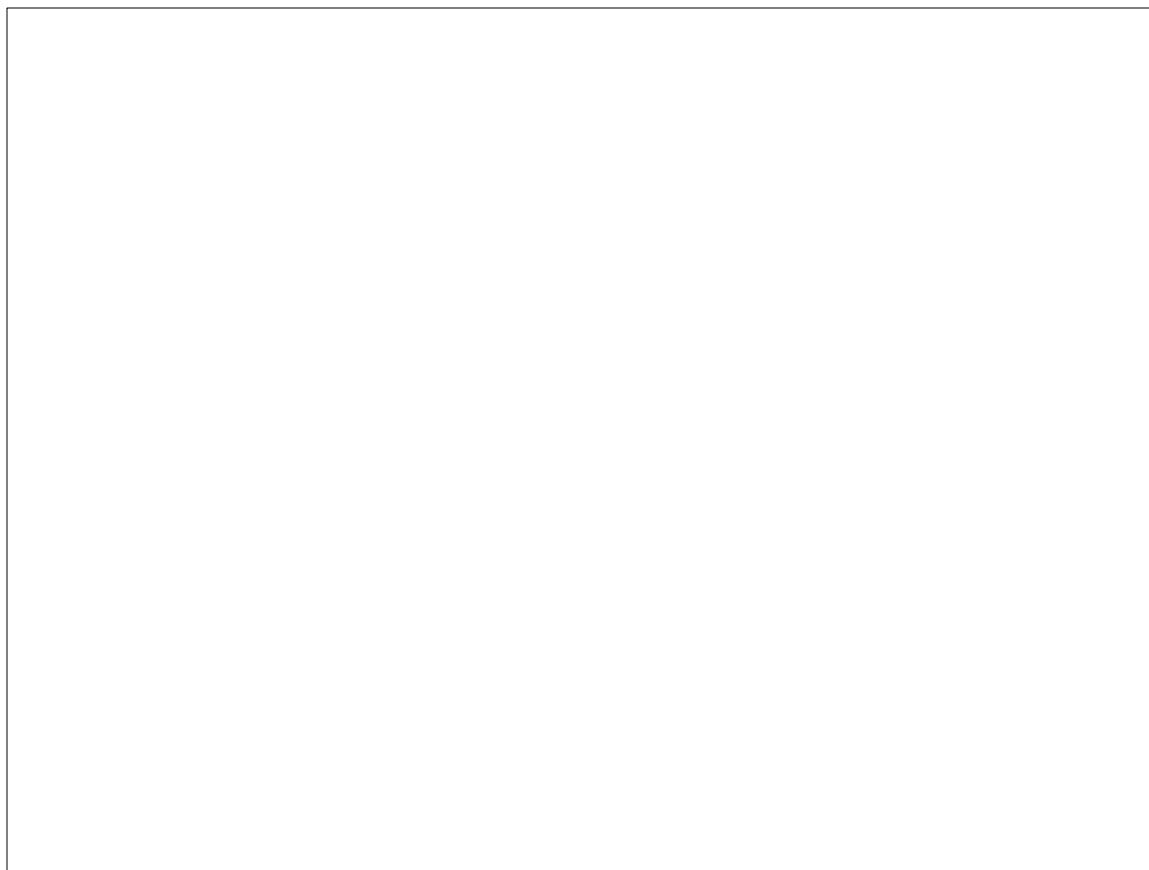
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## Order in which electron orbitals are filled

n	s	p	d	f
1	1			
2	2	3		
3	4	5	7	
4	6	8	10	13
5	9	11	14	17
6	12	15	18	
7	16	19		

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