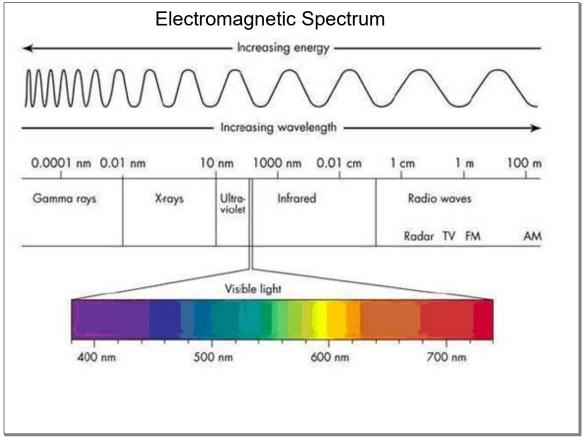
Bell-Ringer: Go to All in Learning

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LO:

Students will be able to determine the electron configuration of elements in their ground state.

DOL: Students will be able to correctly assign electrons to their orbitals at least 4/5 times.



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Electrons and Quantized Absorption

ground state vs excited state

Quantum Numbers: Electrons and their labeling system

principal energy level = n

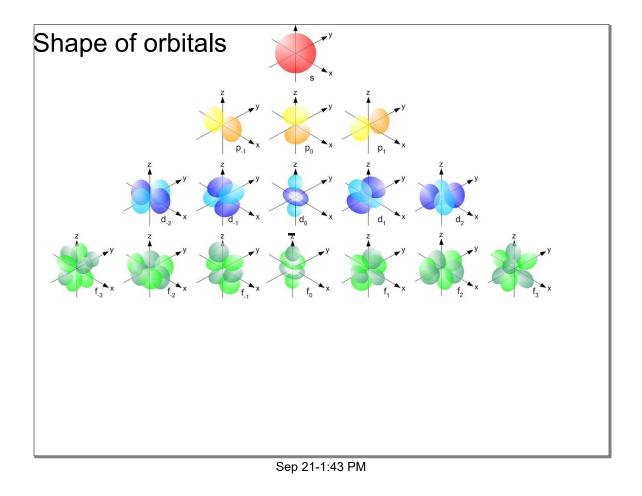
$$n = 1, 2, 3, 4, \dots$$

I = can be from 0 thru n-1

$$0 = s$$
, $1 = p$, $2 = d$, $3 = f$

m =from -/ thru positive /

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Pauli Exclusion Principle
at most 2 electrons per sub-orbital
aufbau principle (German for construction)
lowest energy levels filled first
Hund's Rule

no doubling until all sub-orbitals have one first

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Aufbau Explained

- 1) first fill s
- 2) then fill p
- 3) don't fill d until next s is filled
- 4) don't fill f until next 2 s are filled

n	S	p	d	f
1				
2				
3				
4				
5				
6				

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n	S	р	d	f
1				
2				
3				
4				
5				
6				

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Complete the assignment in Google Classroom.