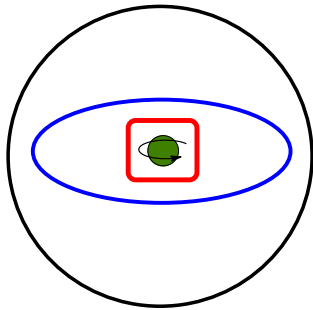


CONCEPT: ELECTRONIC STRUCTURE

- The modern description of the electronic structure of an atom is based on the following principles:
 - **Shell**: The orbit that electrons take as they travel around the nucleus.
 - **Subshell** (Sublevel): The region where a group of electrons in an atom are located within the same *shell*.
 - Subshells use the variables of ____, ____, ____, and ____.
 - **Orbital**: The region within a *subshell* where specific electrons can be found.

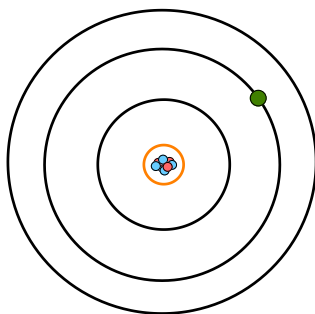
Electronic Structure		
The Atom	Name	Description
	Shell	_____ and _____ of a shell
	Subshell	_____ of an orbital within a subshell
	Orbital	_____ of electrons in a set of orbitals
	Electron	_____ of electron in an orbital

- **Breakdown:** The Atom → _____ → _____ → _____ → _____

EXAMPLE: If the path of an electron within an orbital can be seen as an ellipses, which best describe this image?

- a) Shell b) Subshell c) Energy level d) Electron

PRACTICE: Which term can best describe the electron shown in the following image?



- a) Shell b) Subshell c) Sublevel d) Electron