

Name: _____

Period: _____

Seat#: _____

- 1) An orbital is:

- 2) What is the difference between an orbital and an orbit (Bohr Model)?

- 3) What are the four things we need to adequately describe where an electron is inside an atom?
 - a.
 - b.
 - c.
 - d.

- 4) Fill in the following chart:

Orbital Type	Description of Shape	# of orbitals in a set	# electrons allowed in one of the orbitals	# electrons allowed in a set of the orbitals
s				
p				
d	Complex lobes			
f	Even more complex			

- 5) Describe each rule for writing the "address" of an electron - in your own words! Then draw a visual representation for this rule. If we were to try and make a little classroom poster to remind us of the rule what would it look like? Think of how things like road signs and warning signs are drawn - bold pictures with minimal words.

Rule	Written Description	Visual Representation
Aufbau Principle		
Pauli Exclusion Principle		
Hund's Rule		