ORBITALS

are part of what makes an atom an atom	
But where exactly are the electrons inside an atom?	
Orbitals-are areas within atoms where there is a	

Knowing how electrons are in an atom is importan because that governs how	t
It has been determined where the inside an atom, but it is not knowhere the electrons are inside to (as described by	wn precisely

The <u>area</u> where an electron can be found,
is defined mathematically, but we can see it as a specific _____in

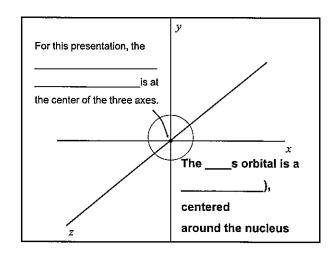
Types of Orbitals

The ______takes on a shape

They are named ____, ___, and ____.

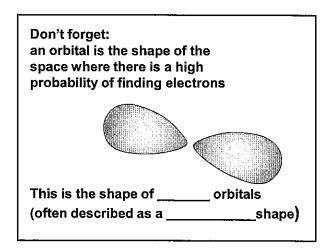
(In order of _____.)

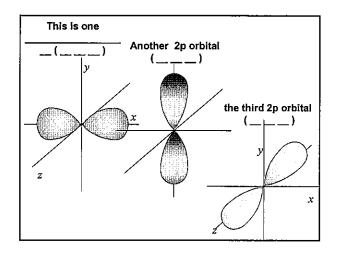
Memory tip..."Some People Don't Forget."

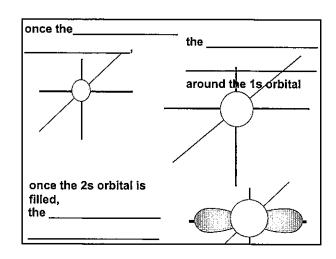


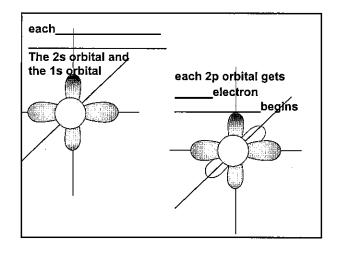
The __s orbital is also
a _____.

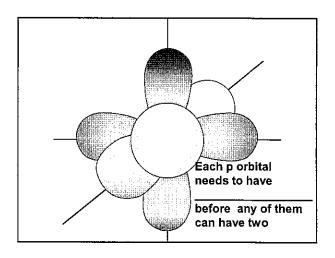
The 2s electrons have a _____ energy
than the 1s electrons. Therefore, the 2s electrons are
generally ______ from the nucleus,
making the 2s orbital ______ than the 1s orbital.

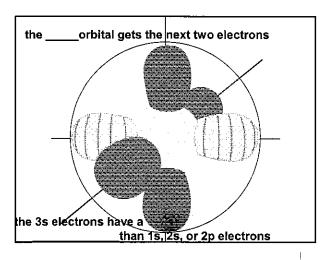






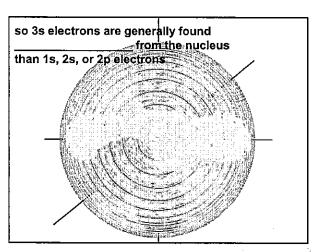






Check your understanding

1. What is the maximum number of electrons that could be contained in each orbital?



- 2. An orbital with a "dumbbell" shape is what type of orbital? s, p, d or f
- The orbitals closer to the nucleus contain electrons with ____ (more, less) energy.