

Orbitals and Electrons

Record three key pieces of information:

1. The period number represents the energy levels of the valence electrons
2. Energy levels have sublevels. The sublevels are s, p, d, and f.
3. Sublevels are divided into orbitals. They are explained better below.

The S Orbital:

Shape: Name the geometry of and draw the s orbital shape. Sphere

of s orbitals: 1

Maximum # of electrons accommodated: 2

The P Orbital:

Shape: Name the geometry of and draw the p orbital shape. Dumbbell

of p orbitals: 3

Maximum # of electrons accommodated in the p orbital: 6

The D Orbital:

of d orbitals: 5

Maximum # of electrons accommodated in d orbital: 10

The F Orbital:

of F orbitals: 7

Maximum # of electrons accommodated in f orbital: 14