



**Electrons
Crossword
Puzzle**

ACROSS CLUES

2. Electrons are not found in definite orbits, but in a fuzzy _____ (2 wds)
6. Debroglie stated that a moving electron can act as both a _____ and a particle
7. In the model of the atom by _____, electrons traveled in predictable orbits
9. A highly probable location for finding an electron.
11. In the configuration $1s^2$, the "1" stands for the energy _____
12. Other than power, the part of the EM spectrum with the lowest energy
13. The Aufbau principle states that electrons enter orbitals of _____ first (2 wds)
15. Planck and einstein explained that light is both a wave and a _____.
16. _____ mechanics is a theory explaining electron energies in atoms
17. s, p, and d each stand for a different _____.
18. Two electrons can occupy the same orbital only if they have _____ (2 wds)

DOWN CLUES

1. The most stable, lowest energy state of electrons in an atom. (2 wds)
2. Visible light and x-rays are forms of _____ radiation.
3. An _____ electron has absorbed energy and moved to a higher energy level
4. Heisenberg's _____ principle says you can't tell the exact position and speed of an electron
5. When electrons move to a higher energy level they _____ energy
8. Two electrons with opposite spin in the same orbital is an electron _____
9. Eight electrons in the outermost energy level.
10. We can only determine the _____ of the location of an electron, not exactly.
11. An electron releases energy as a certain color of light as it moves to a _____ energy level
14. A bundle of light energy.
15. Three electrons in an orbital violates the _____ principle