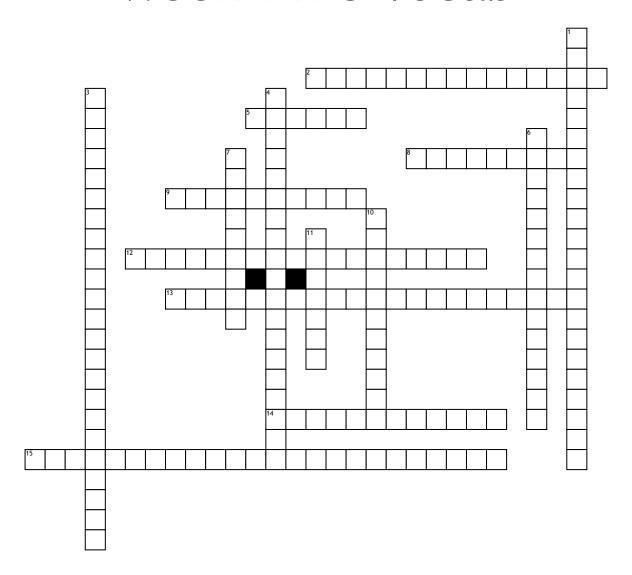
Name:	Date:	Period:

Week 11/8 Vocab



Across

- **2.** another way of expressing the electron configuration of an atom. It is very useful in determining quantum numbers as well as electron pairing.
- **5.** a particle representing a quantum of light or other electromagnetic radiation
- 8. every orbital in a subshell is singly occupied with one electron before any one orbital is doubly occupied, and all electrons in singly occupied orbitals have the same spin.
- **9.** the distance between successive crests of a wave, especially points in a sound wave or electromagnetic wave.
- **12.** the quantum mechanical principle which states that two or more identical fermions (particles with half-integer spin) cannot occupy the same quantum state within a quantum system simultaneously.

- **13.** the distribution of electrons of an atom or molecule (or other physical structure) in atomic or molecular orbitals
- **14.** a state of a physical system (such as an atomic nucleus, an atom, or a molecule) that is higher in energy than the ground state.
- 15. a kind of radiation including visible light, radio waves, gamma rays, and X-rays, in which electric and magnetic fields vary simultaneously

Down

- 1. unique spectra of light emitted by an element when electricity is run through it or when it is viewed through a prism
- **3.** the range of wavelengths or frequencies over which electromagnetic radiation extends.

- **4.** the emission, or ejection, of electrons from the surface of, generally, a metal in response to incident light.
- **6.** states that in the ground state of an atom or ion, electrons fill atomic orbitals of the lowest available energy levels before occupying higher levels
- 7. the number of waves that passes a given point per second.
- **10.** the lowest energy state of an atom or other particle.
- **11.** a discrete quantity of energy proportional in magnitude to the frequency of the radiation it represents.