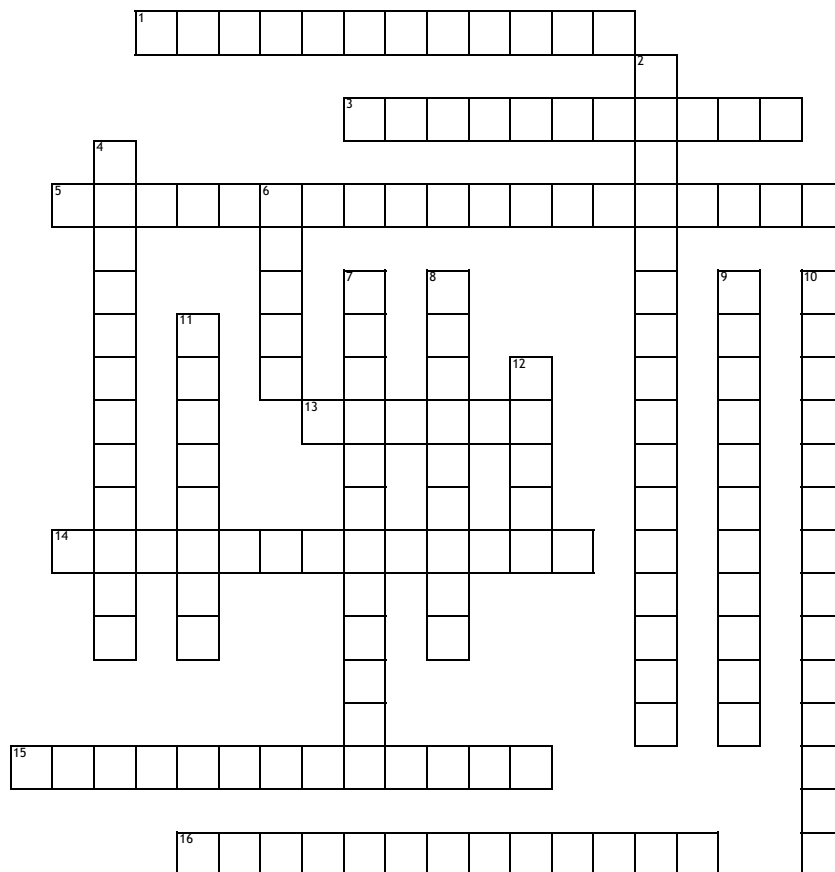


Ionic Compounds



Across

1. a force that holds two atoms together
3. An aqueous solution of an ionic compound that conducts electricity
5. The electrons involved in metallic bonding that are free to move easily from one atom to the next throughout the metal and are not attached to a particular atom
13. positively charged ion
14. Compound with an ionic bond
15. The energy required to separate 1 mole of the ions of an ionic compound
16. An ion made up of two or more atoms bonded together that acts as a single unit with a net charge

Down

2. Proposes that all metal atoms in a metallic solid contribute their valence electrons to form a "sea" of electrons
4. The attraction of a metallic cation for delocalized electrons
6. A mixture of elements that has metallic properties
7. an ion formed by only 1 atom
8. a force that holds oppositely charged particles together
9. The simplest ratio of ions represented in an ionic compound
10. A 3-D arrangement of particles so that all positives are surrounded by negatives and all negatives are surrounded by positives
11. A polyatomic ion composed of an element, usually a nonmetal, bonded to one or more oxygen atoms
12. negatively charged ion