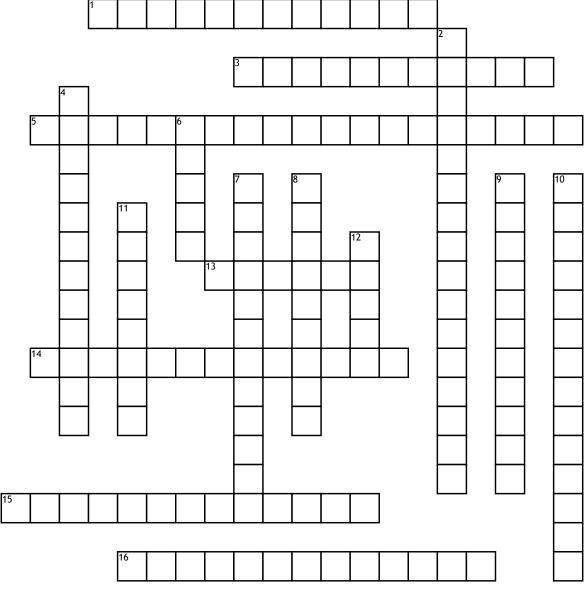
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Ionic Compounds



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