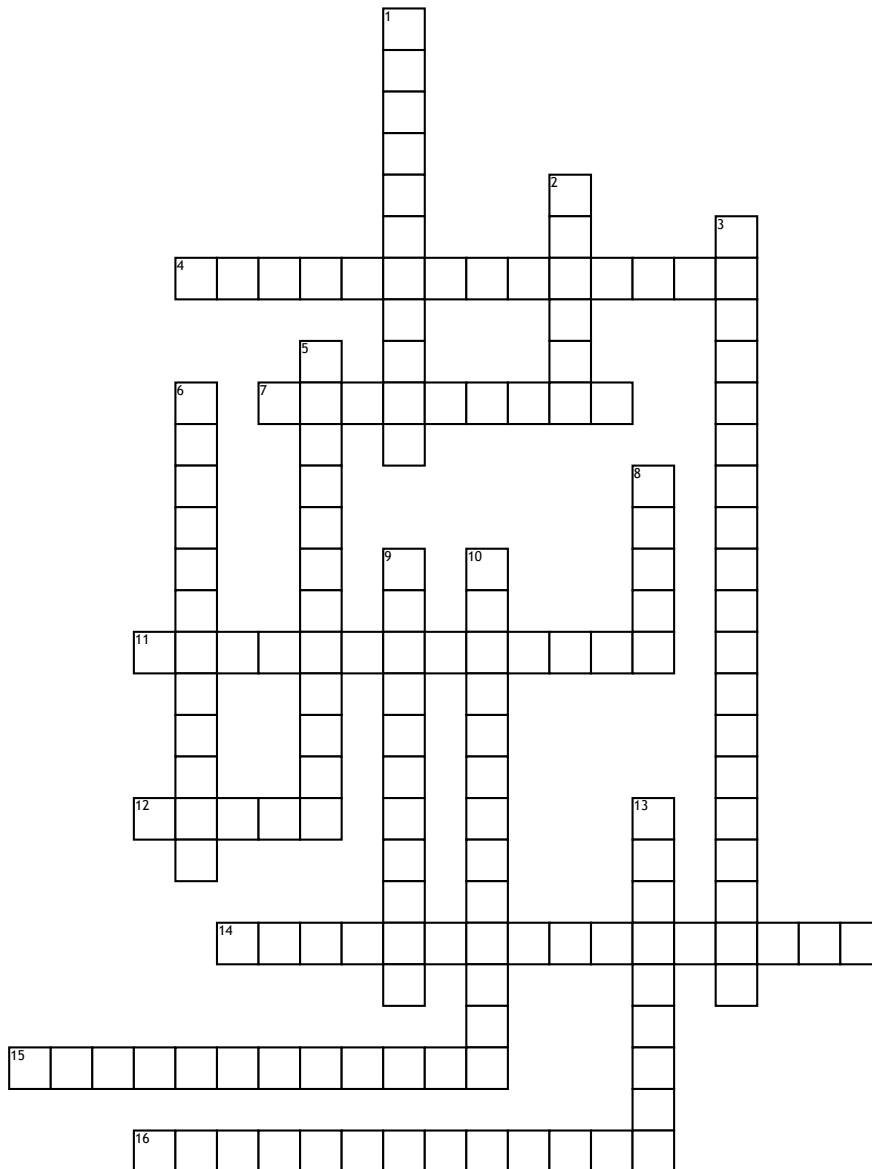


ionic compounds



Across

4. the three-dimensional geometric arrangement of particles in each positive ion is surrounded to negative ion and each negative ion is surrounded by positive ion
7. the electrostatic force that holds oppositely charged particles together in an ionic compound
11. the energy required to separate one mole of the ions of an ionic compound
12. an ion that has a negative charge
14. to all metals atoms that are in the metallic solid their valence electrons to form a "sea" of electrons

15. the attraction of a metallic cation for delocalized electrons

16. its made up of two or more atoms that are bonded together that a single unit with a net charge

Down

1. the simplest ratio of ions represented in ionic compound
2. an ion that has a positively charge
3. the electrons involved in the metallic bonding that are free to move easily from 1 atom to the next throughout the metal and are not attached to a particular atom
5. an ion formed from only one atom

6. the 2 atoms together; may form the attraction of a positive ion for a negative ion or by sharing electrons

8. that mixes the elements with metallic properties; most commonly forms when the elements are either similar size or the atoms of one element are much smaller than the atoms of the other

9. an ionic compound whose aqueous solution conducts an electric current

10. compounds that contain ionic bonds

13. the polyatomic ion is composed of an element, usually a nonmetal, bonded to one or more oxygen atoms