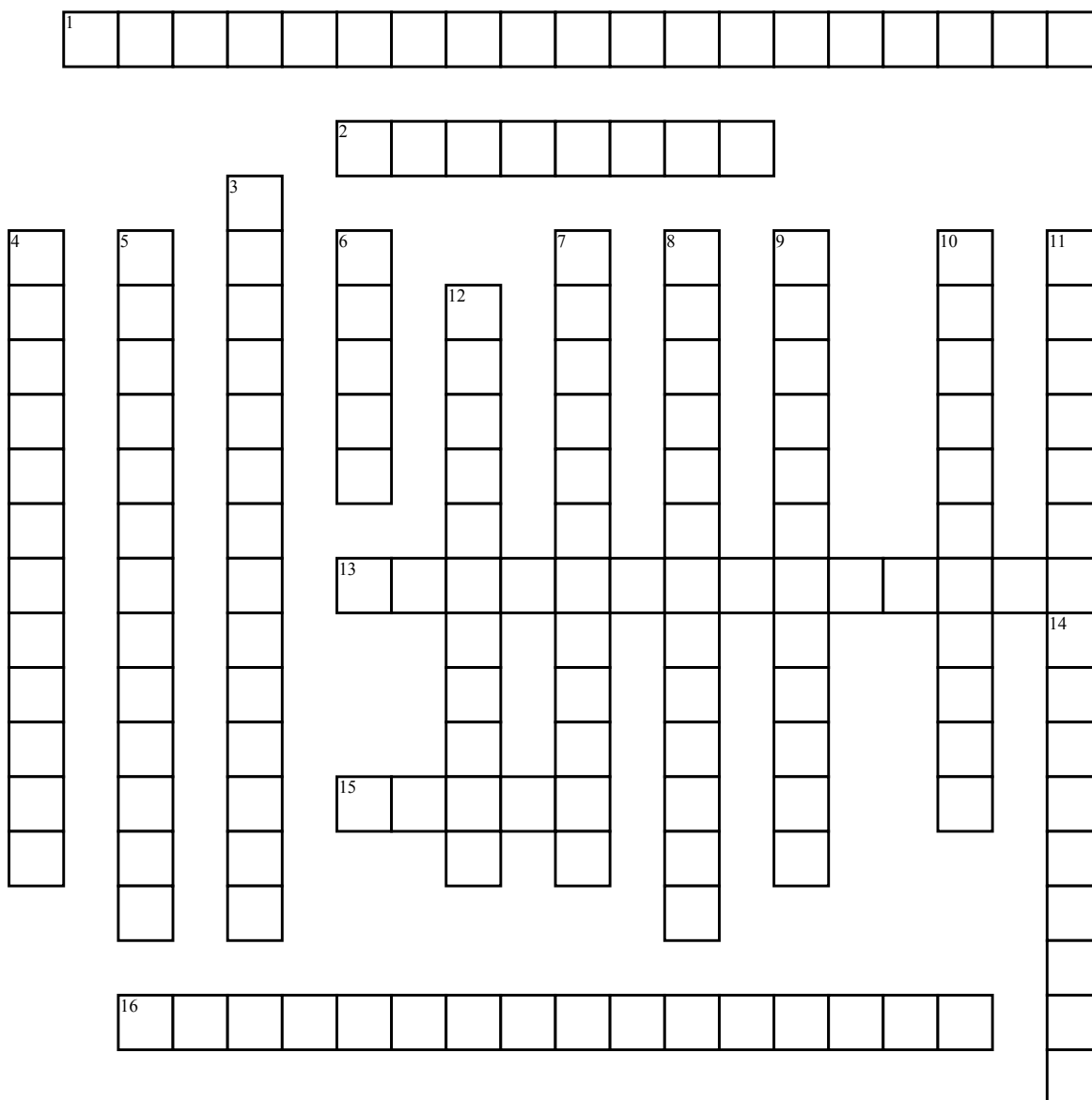


Name: _____

Ionic Compound



Across

1. Exists in the structure of solid metals
2. Formed by a large majority of the chemical elements.
13. A molecular ion.
15. A negatively charged ion.
16. A model of metallic bonding in which cations are considered to be fixed points within a mobile 'sea' of electrons.

Down

3. The regular array of points about which the atoms, ions, or molecules composing a crystal are centred.
4. An ion consisting of a single atom
5. A crystalline solid is usually defined as the energy of formation of the crystal from infinitely-separated ions and as such is invariably positive.
6. A metallic solid or liquid that is composed of a homogeneous mixture of two or more metals or of metals and nonmetal or metalloid elements, usually for the purpose of imparting or increasing specific characteristics or properties.
7. Any of several forces, especially the ionic bond, covalent bond, and metallic bond, by which atoms or ions are bound in a molecule or crystal.
8. A chemical compound comprising ions held together by electrostatic forces termed ionic bonding.
9. The chemical bond characteristic of metals, in which mobile valence electrons are shared among atoms in a usually stable crystalline structure.
10. A substance that produces an electrically conducting solution when dissolved in a polar solvent, such as water
11. An ion or group of ions having a positive charge and characteristically moving toward the negative electrode in electrolysis.
12. the empirical formula of any ionic or covalent network solid compound used as an independent entity for stoichiometric calculations.
14. Also called electrovalent bond.