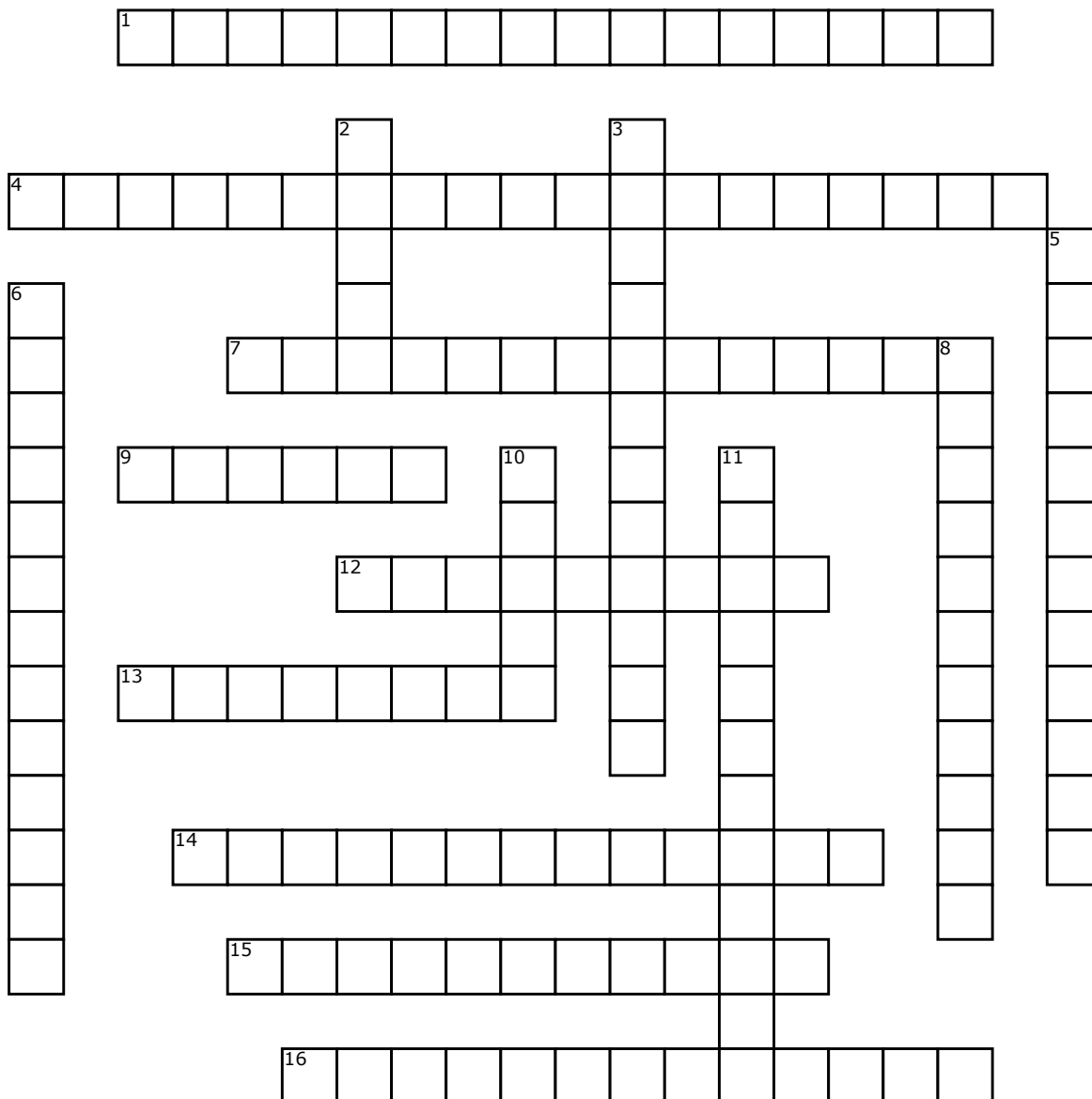


# Chapter 7 vocab



## **Across**

- 1.** "sea" of electrons that surrounds the positively charged atomic nuclei of the interacting metal ions  
**4.** electrons that are not associated with a single atom or covalent bond  
**7.** positive ions are surrounded by negative ions and negative ions are surrounded by positive ions  
**9.** positively charged ion  
**12.** electrostatic force that holds oppositely charged particles together

**13.** an ion with a generic formula

**14.** composed of two or more atoms covalently bonded

**15.** empirical formula of any ionic or covalent network solid compound

**16.** a measure of energy contained in the crystal lattice of a compound

## **Down**

**2.** a mixture of elements that has metallic properties

**3.** a chemical bond that arises from the electrostatic attractive force between conduction electrons and positively charged metal ions

**5.** force that holds two atoms together

**6.** compounds that contain ionic bonds

**8.** ionic compound whose aqueous solution conducts an electric current

**10.** negatively charged ion

**11.** ion consisting of exactly one atom