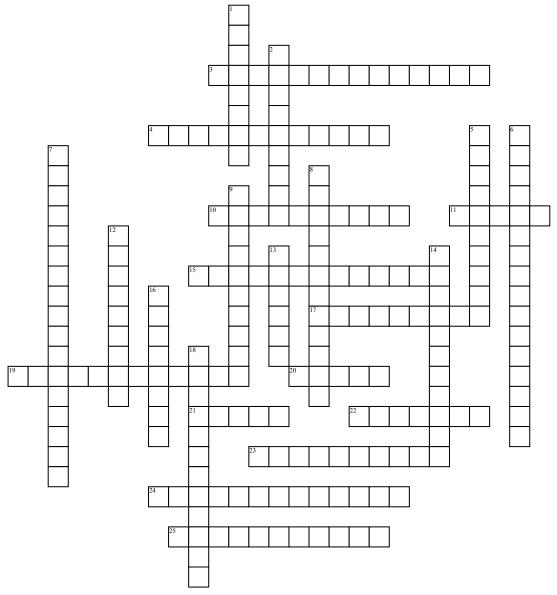
Name:	Date:	

Bonding



Across

- **3.** diagrams that show the bonding between atoms of a molecule and the lone pairs of electrons that may exist in the molecule.
- **4.** What is a mutual electrical attraction between the nuclei and valence electrons?
- **10.** The energy required to break a chemical bond
- **11.** a mixture of metals or a mixture of a metal and another element
- **15.** Ion with multiple atoms
- 17. What is the electrical attraction between a large number of anions and cations?
- **19.** Sharing of electrons among a lattice of positively charged ions
- **20.** Uneven distribution of charge
- **21.** A negative charged ion

- **22.** large molecule, or macromolecule, composed of many repeated subunits
- 23. Release of heat
- **24.** defined as the energy required to separate a mole of an ionic solid into gaseous ions.
- **25.** the empirical formula of any ionic or covalent network solid compound

Down

- 1. a pair of valence electrons that are not shared with another ato
- **2.** are the strongest type of covalent chemical bond
- **5.** One pair o electrons is shared between two atoms
- **6.** Molecule containing only two atoms
- 7. a chemical property that describes the tendency of an atom to attract electrons towards itself

- **8.** Ion with one atom
- **9.** Two pairs of electrons are shared between two atoms
- 12. a chemical rule of thumb that reflects observation that atoms of main-group elements tend to combine in such a way that each atom has eight electrons in its valence shell,
- 13. A positive charged ion
- **14.** Absorbtion of heat
- **16.** What is a mutual group of atoms held together by covalent bonds?
- **18.** What is the sharing of an electron pair between two atoms?