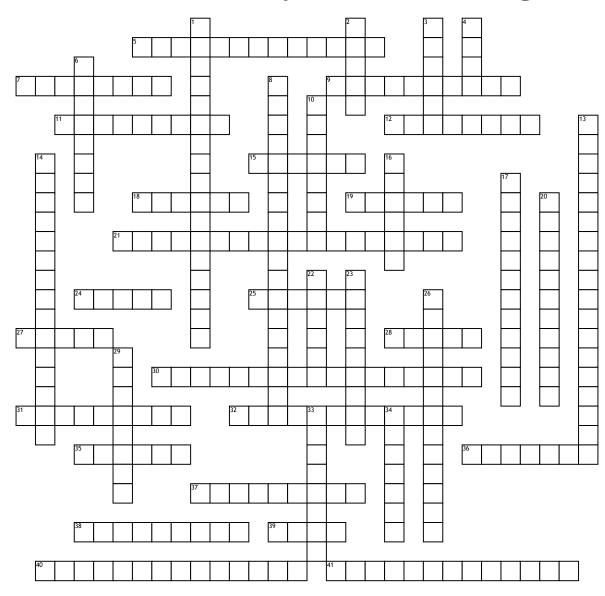
Chemistry - Bonding



<u>Across</u>

- 5. A molecule with charged poles
- 7. Covalent bonds are _____ than ionic bonds
- 9. Electrostatic forces that hold ions together are
- 11. Ionic size _ from left to right on the periodic table
- **12.** _____ dot structures show the atoms valence electrons as dots
- __ metals tend to form +1 cations 18. An electrostatic spray gun is used to create a
- on paint to better adhere to a car
- 19. Hydrochloric acid contains one 21. When one atom supplies both bonding electrons
- 24. Theory to predict the shape of a molecule
- 25. An ion with a positive charge
- 27. An ion with a negative charge
- 28. Gases that do not react
- 30. Bond type can be predicted by looking at the _'of each atom

- 31. If chlorine gains one electron it meets the
- 32. A pair of electrons that are not involved in
- 35. Covalently bonded compound tend to have melting points that ionic compounds
- 36. Electrons in the highest occupied energy
- **37.** The electronegativity of elements
- from left to right on the periodic table
- 38. ability to be hammered to a shape
- 39. Ionic compounds are _ conductors of electricity when in their solid state
- 40. The transition metals can have a configuration when forming ions
- 41. Tightly bound group of atoms that has a charge and behaves as a unit

Down

- 1. Gold atoms have a ____ _____ arrangement
- 2. Mixture of two or more elements, at least one of which is a metal
- 3. Carbon dioxide contains two _____ bonds

- 4. Atoms _____ electrons to form an anion
- 6. Water molecules attraction to each other
- 8. ____ occur polar molecules are attracted to one another
- _ bonding consists of cations in a sea of electrons
- 13. When two valid electron dot structures are possible
- 14. All molecules experience _
- 16. Two halogens will form a _____ covalent bond
- 17. Diamond is an example of a _
- 20. The lowest whole number ratio of ions in an ionic
- 22. Methane contains four ___ bonds
- 23. Atomic size _____ down a group on the periodic table
- 26. sp3 is an example of _ _ bonds with three hydrogen to form
- ammonia 33. Water molecules attraction to other substances
- 34. The number of _____ define an element