



# Lewis Structures and Molecular Geometry

# Models of Covalent Bonding

#### Introduction

Molecules have shape! The structure and shape of a molecule influences, its physical properties and affects its abendual behavior as well. Lewis structures and VSEPR theory offer useful models for visualizing the structures of covalent compounds.

## Concepts

Waterson electronic

Considers booking:

\* Legeria structures.

· WSEPR discorp

### Background

Considered bearing are defined, as the net attractive forces between represental above that share one, two or three pairs of electrons. In governal, only the turbrare electrons, those to the highest energy levels that are furthest every from the nucleus, are available for bearing. The number of salerone electrons interested that an atom will form. The Projecte Table offers a consentent shortcut for determining the number of valence electrons in an atom. Remonsters that the position of an element in the resident Projecte. Table reflects its electron configuration. When the representative elements are arranged in orderans from IA to VIIIA there Figure II, the number of valence electrons for an element is educate to its group number. Thus, potassium in Group IA has one relevant electrons, carbon in Group IVA has four relevant electrons, and chlorine in Group VIIA has seem walence electrons.

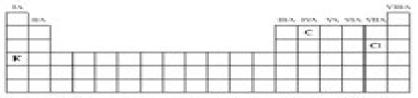


Figure 1. Numbering of representative elements in Circups IA-VIIIA.

In 1916, C.N. Levets, an American chemist, proposed arranging distaaround the symbols of the elements to represent the valence electrons. Levals electron and specials (see Figure 2) remain the most popular may unplicate the valence electrons that are available for borning.



Figure 2. Lewis electronyclot syndrols for representative elements.

Accountmentative build on the Lawis electron-dost symbols of the elements to show the boriding arrangement of atomicity a molecule and the distribution of all valence electrons. The Lawis expectation of a molecule thus shows all of the atomic and how they are connected. A single problem has shown all of the atomic and how they are connected. A single problem has between two atoms, corresponding to a pair of electrons, is represented using a dush (—). Sometimes atomic share name than one pair of electrons between them in order to form stable molecules. Two dashes (corresponding to two pairs of electrons) and there dashes (corresponding to three pairs of electrons) are used to represent deather and triple laws, respectively.

63. N. Lerwis riffered: a simple theory, hased on the known stability of the robble gases (Ple, Ne, etc.), to precific how many bonds an atom well form and how many atoms of a particular type will come together to form a stable routecale. According to Lerwis, nonmertals may share electrons in order to achieve a valence obell electron "cours." similar to that of the robble gases.

""Elso atomic many conforms to the rade of eight, or the votet rade...
By whating one or more pains of distribute. The electrons subject
are held in common by two atomic may be considered to belong
to the water shell of both atomic."

The recible gases have filled a and provisals with eight electrons. The octavinal measurement that atoms force impleaded to achieve this stable, recible gas electron configuration. In counting ordered electrons in order to precise the structure of a covalent compound, we will distinguish between the firsts of electrons pains. Broading pains of electrons are shared between atoms and thus "belong" to both atoms in the bond. Newhooding or conducted pains of electrons are not shared between atoms and pains of electrons are not shared between atoms and are therefore "countered toward only one of the atoms.

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**JG Myers** 

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