

Keypoints Lewis Dot Structures and VSEPR

Definitions

You will not be asked to write a definition of any of these but I do expect you to recognize them when they are used in problems, etc..

Bent Molecule
Covalent bond
Double bond
Electron pair
Electron sharing
heterogeneous mixture
homogeneous mixture
Lewis Dot Structure
Linear
Loan pair
Non-bonding electron
Single bond
Tetrahedral
Tetrahedron
Trigonal Planar
Triple bond
Valence electrons

Concepts

1. Be able to draw Lewis Dot Structures for molecules containing H, B, C, N, O, P, S, F, Cl, Br, and I.
2. Be able to predict the geometry of objects around the central atom using VSEPR.
3. Be able to predict the geometry of the atoms around the central atom using VSEPR.
4. Recognize that both loan pairs and atoms determine the arrangement of atoms around the central atom.