

main points

- There are three types of chemical bonding: ionic, covalent, and metallic.
- Each type of bonding results in substances that have different physical properties.
- The chemical behavior of compounds can be explained in terms of their bonding.
- Lewis structures are the chemist's shorthand for representing atoms with their valence electrons.
- Chemical nomenclature deals with the rules for naming and assigning formulas to compounds and ions.