

Covalent Bonding + Organic Chemistry Review

Hybridizations + Types of Bonds

- Know what a hybridization is
- Know the main types of hybridizations
- Know how to find the hybridization of specific atoms within a molecule
- Know what a sigma bond is and how to count it
- Know what a pi bond is and how to count it
- Understand the difference between sigma and pi bonds

Organic Chemistry

- Know what a hydrocarbon is
- Know the difference between saturated and unsaturated hydrocarbons
- Know what an alkane is
- Know what a cyclic alkane is
- Know what isomers are
- Know how the general molecular formula for alkanes
- Know how to name alkanes based off their structure
- Know how to name cyclic alkanes based off their structure
- Know what aromatic rings/compounds are
- Know how to explain aromaticity in terms of hybridization
- Know what benzene is
- Know how to name structures with benzene in them
- Know the general trend for naming hydrocarbons
- Know how to draw cyclic alkanes and alkanes