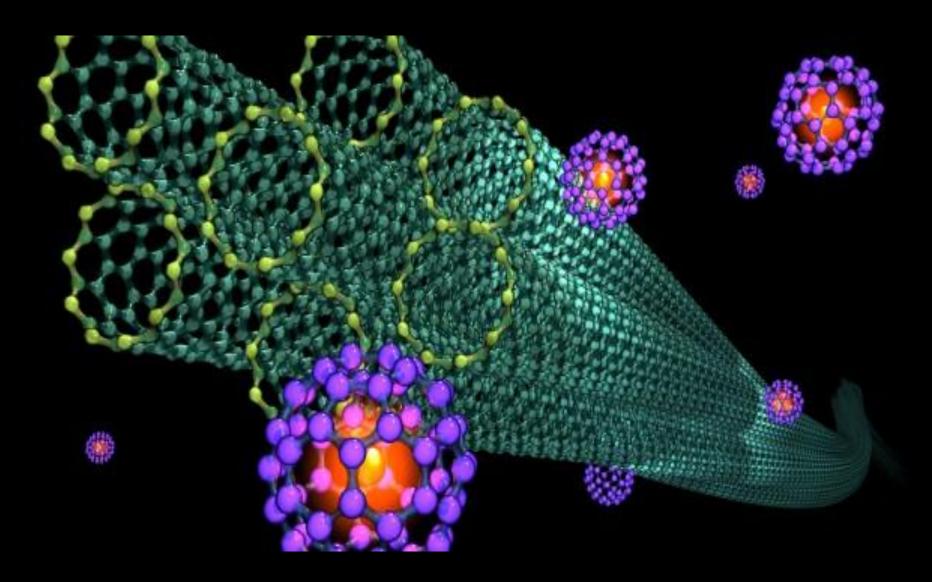
Carbon Compounds



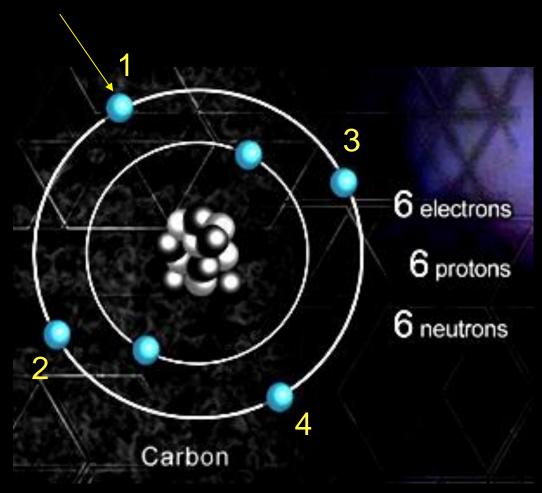
Learning Objectives

 Define the following terms: covalent bond, valence electron, macromolecule, monomer, polymer

 Describe the relationship between monomers and polymers

Carbon Atom

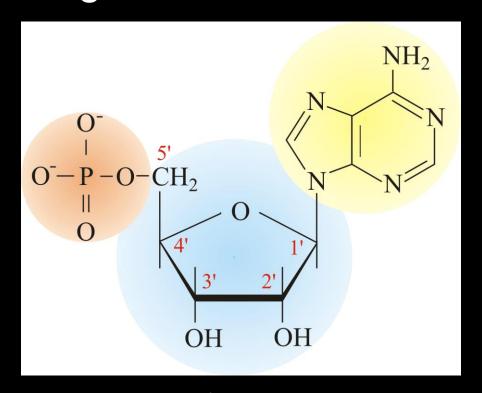
Valence Electrons



Carbon atoms have 4 valence electrons for forming strong covalent bonds

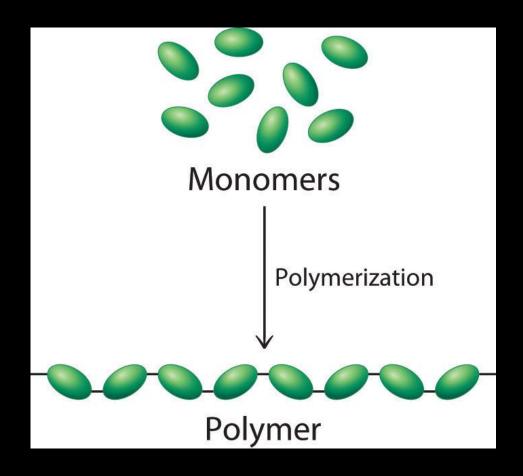
Carbon Bonds

Carbon can bond with many elements, including hydrogen, oxygen, phosphorus, nitrogen and itself to form larger molecules.



Living things are made of carbons and other elements.

Monomers & Polymers



The smaller units, or monomers, join together to form polymers.

Monomers & Polymers

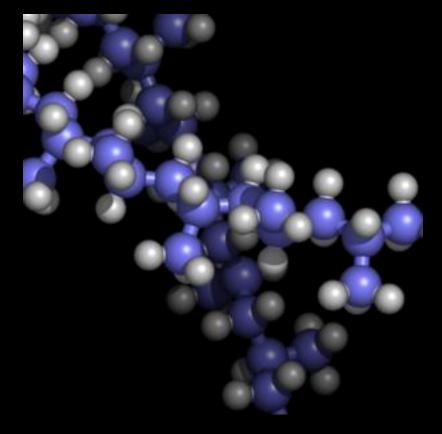




Monomers in a polymer can be identical or different.

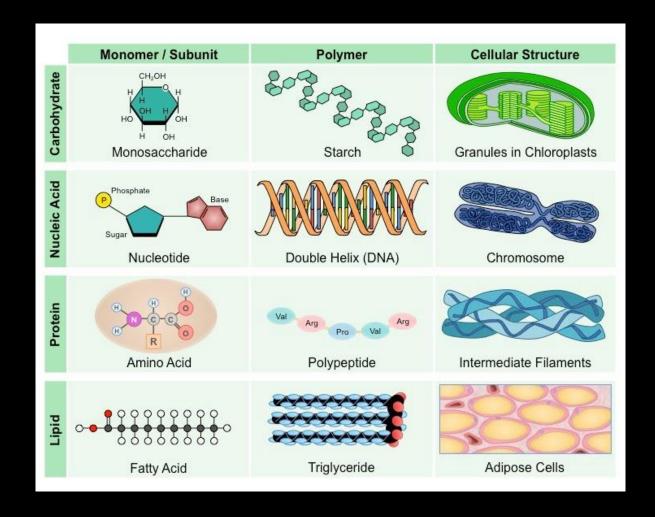
Macromolecules

"Giant Molecules"



Macromolecules are made from large numbers of smaller molecules.

Organic Compounds



Organic compounds are macromolecules needed for organisms to function.

4 Types of Organic Compounds





Carbohydrates
Lipids
Nucleic Acids
Proteins





YouTube Organic Biomolecules

Stop Here

