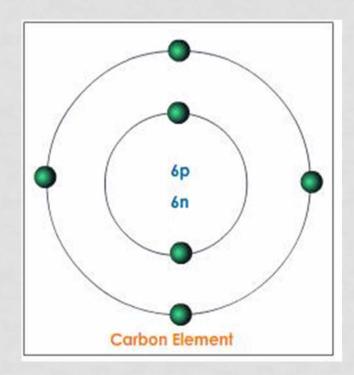
THE BUILDING BLOCKS OF LIFE

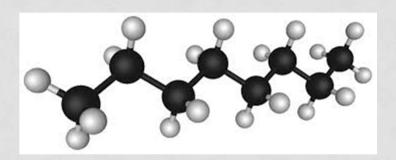
SECTION 6.4

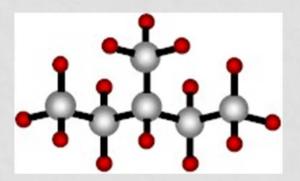
- What does it mean to
 Remember: be organic?
 - In science, words can mean different things than every day life
- Organic containing the element CARBON
- almost all biological molecules contain carbon
- Carbon is unique because of it's atomic structure

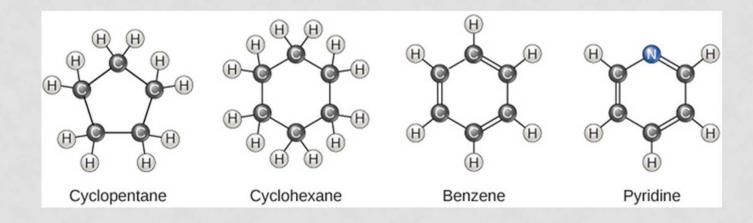
- - 6p+
 - 6 e-



- Carbon has FOUR e- in outer energy level
 - How many e-could this level hold?
 - It could hold 8 e-
- Carbon forms FOUR <u>covalent</u> bonds with other atoms
 - Remember: covalent = sharing e-
 - They can be other elements OR other carbon atoms
- The bonds can form chains, branched chains and rings









- Most cells contain small carbon compounds
 - These connect like building blocks to each other
 - Forms larger carbon molecules
- <u>Macromolecule</u> large molecules that are formed by joining smaller molecules together
 - "macro" = large
- These molecules are also called <u>Polymers</u>
 - "poly" = many "mers" = units
 - Made from repeating units of identical or nearly identical compounds
 - Smaller repeating units are called <u>monomers</u>
 - "mono" = one"mers" = unit

- Four main biological macromolecules:
 - 1. Carbohydrates
 - 2. Lipids
 - 3. Proteins
 - 4. Nucleic Acids
- In your notes, leave room to take some notes on each of these types of molecules while watching the following short video



HOMEWORK

- Bring in a food label for tomorrow
- Make sure it has carbohydrates and/or sugars listed
- Bring more than one if you can!
- Time to work on missing work and individual conversations with me about current grade
- Report cards are done in 9 school days!

• Start with condensation and hydrolysis with carbs.....