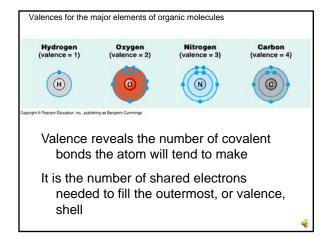
Organic molecules

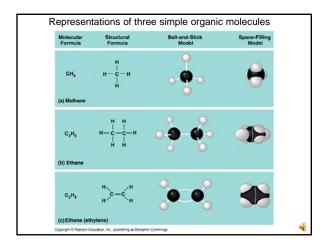
- Nearly exclusively made by organisms
- Chains of carbon atoms with other atoms or groups ("functional groups") attached.
- Carbon is tetravalent- can make up to 4 covalent bonds- therefore suited to making complex molecules Imispoke at one point in this piece of narration- can you find the mistake?
- What about silicon?



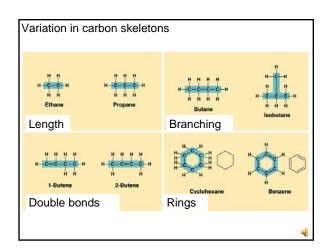










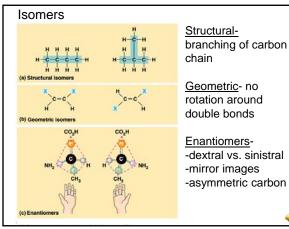


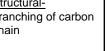


Same molecular formula- different structures

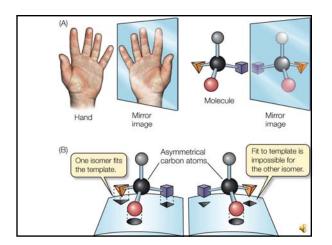
- 1. <u>Structural isomers</u> different covalent arrangement
- 2. <u>Geometric isomers</u> differ around double bond
- 3. <u>Enantiomers</u> (stereoisomers) differ around asymmetric carbon

2

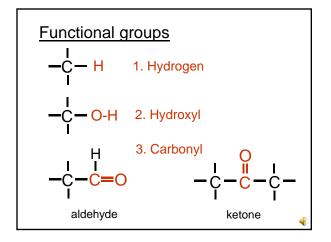




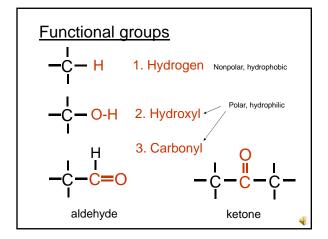
-asymmetric carbon



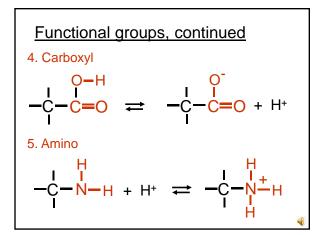


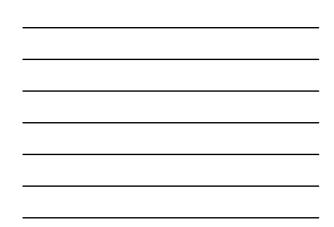


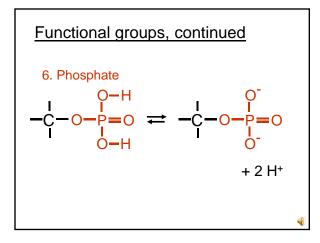




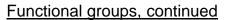












7. Sulfhydryl

Disulfide bonds can link two organic molecules



