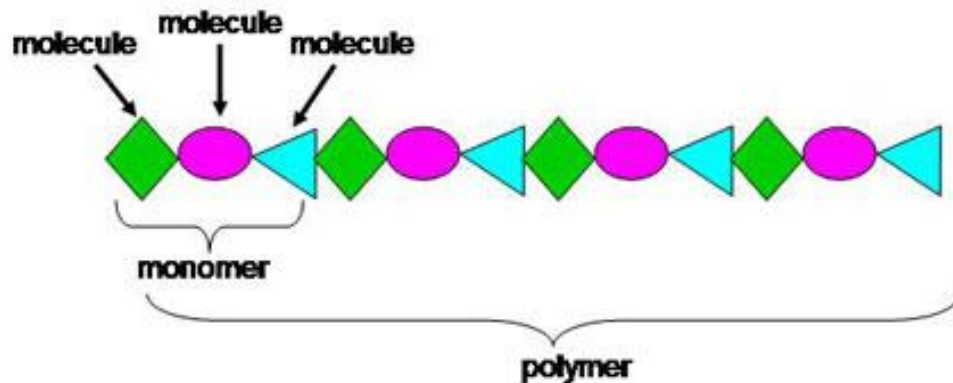
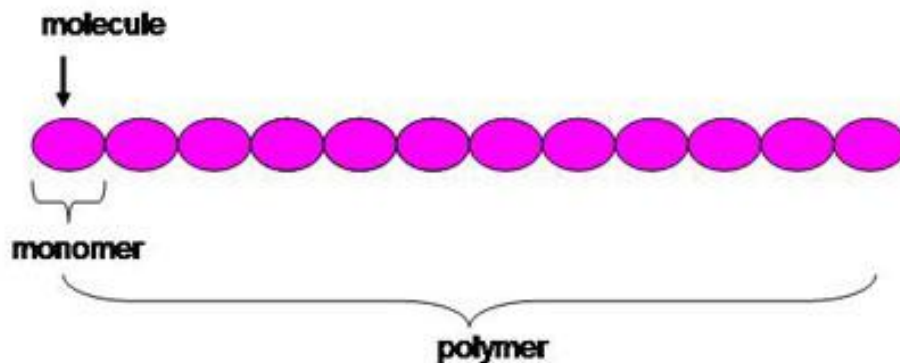


# Organic Molecule Synthesis

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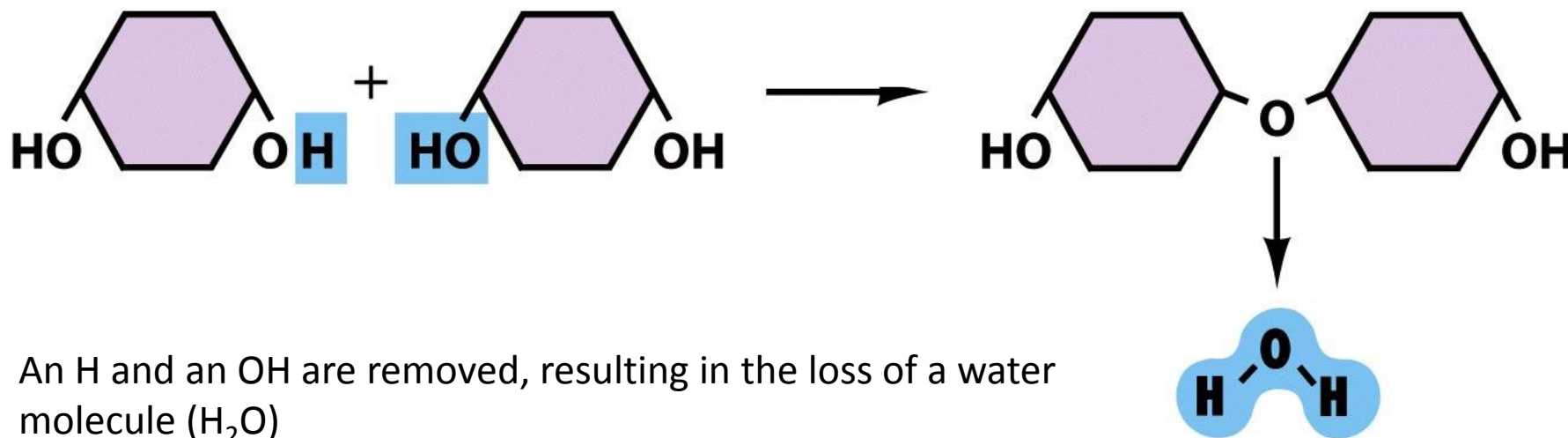
- Biomolecules are **polymers** (chains) of subunits called **monomers**



# Organic Molecule Synthesis

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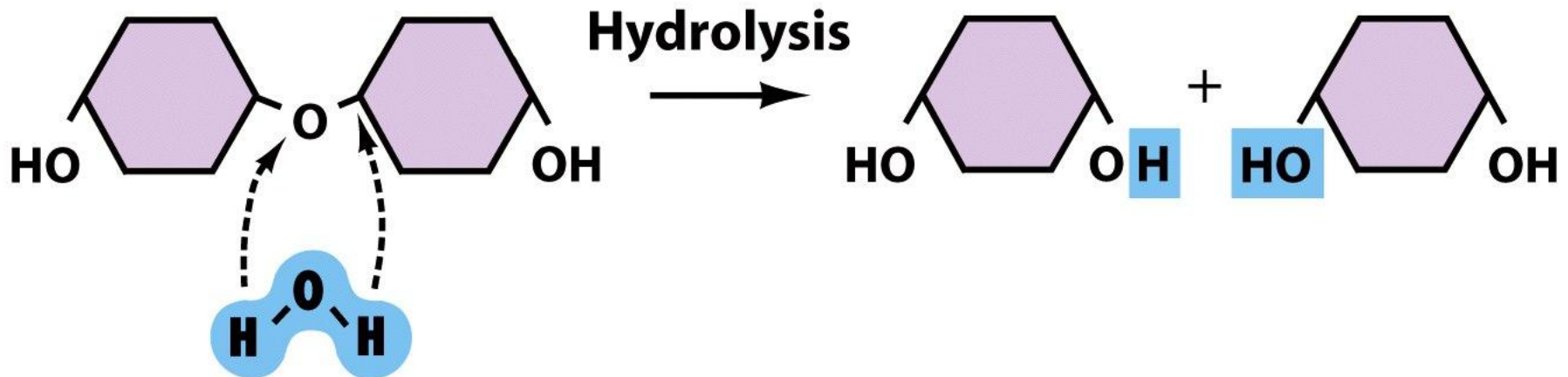
- Monomers are joined together through **condensation reactions**
  - Also called dehydration synthesis



An H and an OH are removed, resulting in the loss of a water molecule (H<sub>2</sub>O)

# Organic Molecule Synthesis

- Polymers are broken apart through **hydrolysis** (“water cutting”)
  - Water is broken into H and OH and used to break the bond between monomers
  - **Here’s an animation**



Here's a simple animation