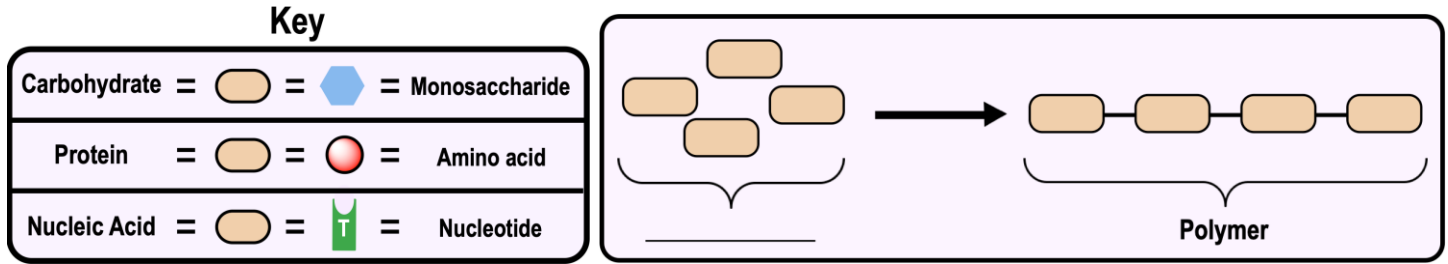


CONCEPT: MONOMERS & POLYMERS

- **Monomers:** _____, individual *building blocks* that can be repetitively linked together to form *polymers*.
 - **Polymers:** long chains of _____ monomers *linked together*.
 - Monomers will _____ depending on the type of biomolecule polymer.
 - *Carbohydrates, proteins, & nucleic acids* use *consistent* monomers to form polymers, but _____ do NOT.

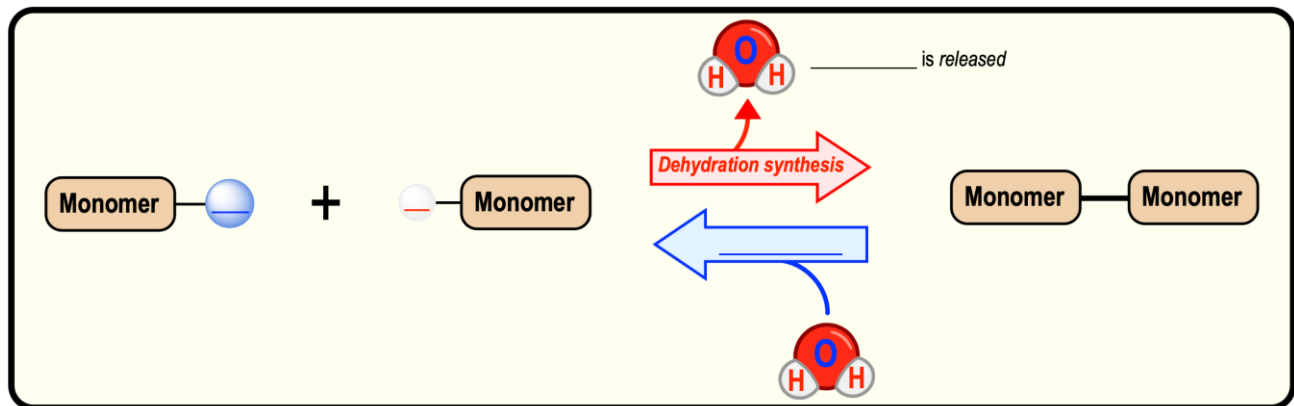
EXAMPLE: Monomers vs. Polymers.



Building & Breaking-Down Polymers

- 1) **Dehydration** _____: *forms* covalent bonds to *link* individual monomers & _____ a polymer.
- 2) _____: *cleaves* covalent bonds to _____ down a polymer.

EXAMPLE: Formation & Breakdown of Polymers.



PRACTICE: Which of the following statements concerning dehydration reactions and hydrolysis is correct?

- a) Dehydration reactions allow solutions to evaporate; hydrolysis reactions dissolve solutes.
- b) Dehydration reactions and hydrolysis reactions assemble polymers from monomers.
- c) Hydrolysis reactions create polymers from monomers; and dehydration reactions create monomers from polymers.
- d) Dehydration reactions create polymers from monomers; hydrolysis reactions break down polymers.

PRACTICE: _____ bonds are formed between monomers to form a polymer.

- a) Ionic bonds.
- b) Covalent bonds.
- c) Hydrogen bonds.
- d) Hydrophobic bonds.
- e). Nuclear bonds.