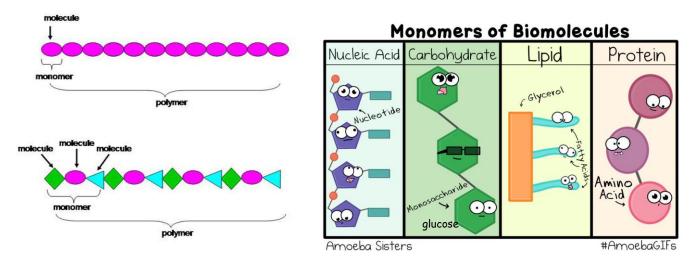
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Monomers and Polymers Worksheet - Regular Option 1

 $\underline{\mathsf{PART}\ 1}$ — All macromolecules are polymers made up of monomers. Monomers are repetitive units that form a larger compound. Look at the image below to familiarize yourself with monomer and polymer structure.



Example: If words are the polymer, letters are the monomer.

If a <u>sentence</u> is the polymer, <u>words</u> are the monomer.

<u>PART 2</u> - Macromolecules are large molecules (polymers) made up of smaller subunits called monomers and when monomers link together they form polymers.

1. Match the MONOmer on the left to the POLYmer on the right.

Metal link _____ A. Blanket
Brick B. Metal chain
Outfits C. Wall
Yarn D. Wardrobe

2. Match the MONOmer on the left to the macromolecules on the right.

Fatty acids and glycerol _____ A. Protein

Monosaccharide B. Lipid

Nucleotide C. Nucleic acid

Amino acid D. Carbohydrate

3. Explain how monomers are related to polymers.

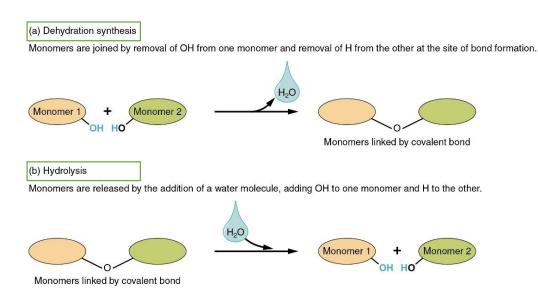
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PART 3 - Complete the chart below. Remember mono means one and poly means many.

MACROMOLECULES	FOOD EX.	MONOMER	POLYMER
Carbohydrates			
Lipids			
Proteins			
Nucleic Acids			

Your best friend tells you that they are deathly allergic to certain amino acids in food. Your mom has prepared dinner already, so you need to tell her not to serve what macromolecule to them?

PART 4 - Study the image below then answer the questions on the right.



- 1. Which process breaks polymers into monomers?
- 2. Which process bonds monomers into polymers?
- 3. Which reaction stores energy?
- 4. Which reaction releases energy?