

Biochemistry Guided Notes

Define a **monomer**:

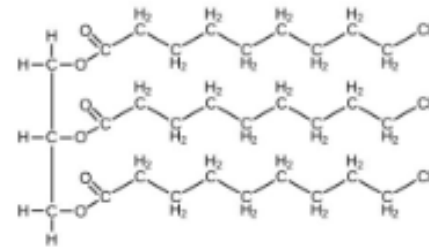
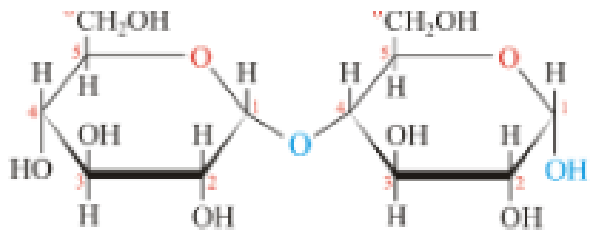
Define a **polymer**:

What elements make up the molecules of life?

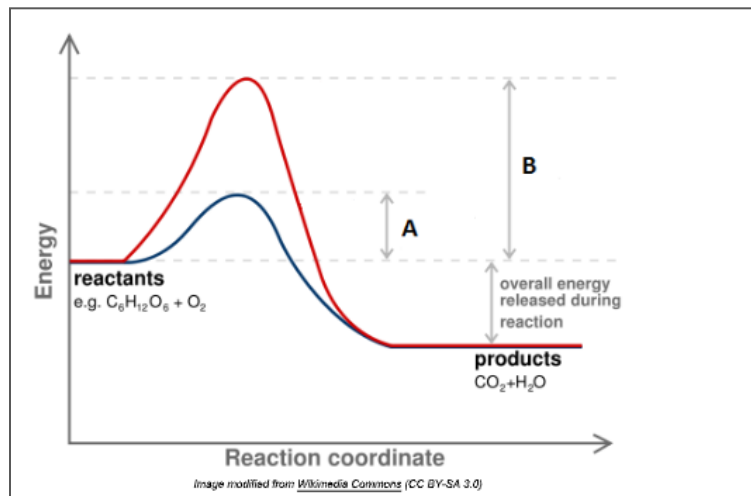
Fill in the following table summarizing the main macromolecules

Biomolecule	Elements	Monomer	Polymer(s)	Function(s)	Examples
Carbohydrate	C,H,O				
Lipid		Fatty Acids			
Protein			Proteins		
Nucleic Acids				Transmitting genetic information	

Explain why you think carbohydrates and proteins each have 4 calories of energy per gram but lipids have 9 calories of energy per gram. Use the image below to help you explain.



Use the following image to explain how an enzyme works.



List at least three factors that affect the rate at which an enzyme works and explain what happens during denaturation

1.

2.

3.