

# Carbohydrates

# Fats (lipids)

# Proteins

# Nucleic Acids

Functional Units or building blocks	How to recognize/ characteristics	Uses/ importance	Other key information
Mono Saccharides glucose	ring structure 2:1 H:D	energy storage glycogen	4 key polysaccharides cellulose chitin glycogen animal energy storage
Fatty acid + glycerol	C, H, O carboxyl group	cell membrane structure excess energy storage	
Amino Acids	Nitrogen very	forms very long chains structure determines function	Regulatory hormones enzymes
Nucleotides	Nitrogen phosphate sugar + base groups	hereditary material DNA + RNA	

## Dehydration synthesis and hydrolysis.

remove  $H_2O$   
to form  
larger and compounds

smaller  $\rightarrow$  larger  
growth

add  $H_2O$   
to break  
down  
larger  
compounds

larger  $\rightarrow$  smaller  
digestion

## Enzymes

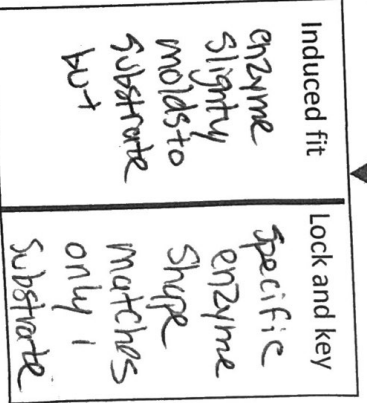
What are they?

Organic catalyst  
speeds up chem rxn without "being used" up itself

Factors that affect them?  
Draw graphs on the back

pH & Temp

How do they work? (draw on back)



Denatured shape determines function