

Monomer - one molecule (small)  
1

polymer - many molecules  
many  
↓  
monomers

4 Biomolecules / macromolecules

• Carbohydrates (sacchr<sup>ide</sup>) (stop sign)

sign Monomer <sup>one stop sign</sup>  
monosacchr<sup>ide</sup>

<sup>many stop signs</sup>  
Polysacchr<sup>ide</sup>

• Protein <sup>4-Different Shapes</sup>  
<sup>primary, Secondary, Tertiary, Quaternary</sup>

Amino Acids <sup>COOH-</sup>  
<sup>NH- C-H</sup>  
<sup>change variable</sup>

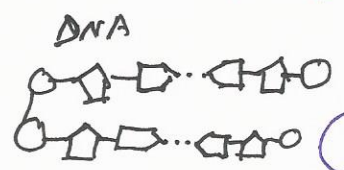
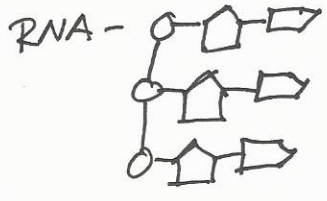
Protein / polypeptide

• Lipids <sup>(chain)</sup>  
CCCCC

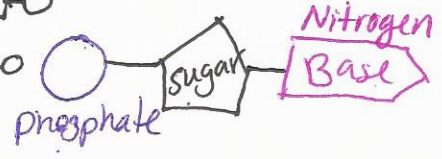
Fatty Acids

Lipid

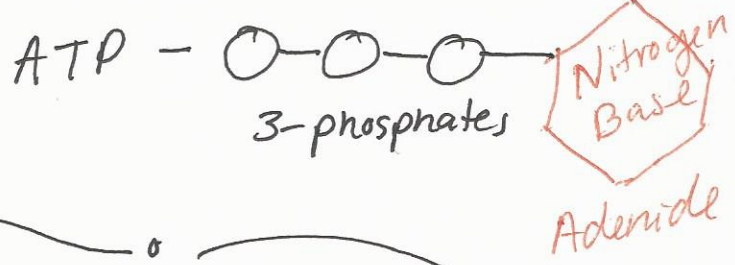
Nucleic Acid



Nucleotide

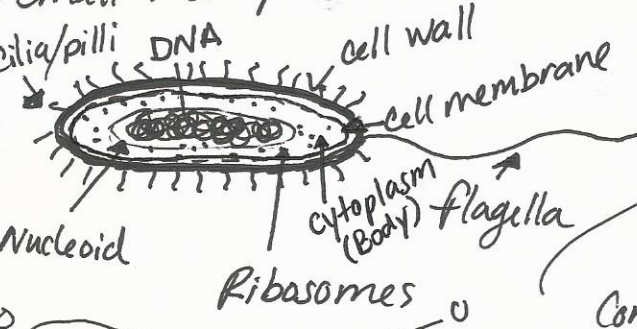


Nucleic Acid



Prokaryotic Cell  
(old)

- No nucleus, no organelles
- Bacteria → single celled → unicellular
- Reproduce
- small + simple



(you have ← Eukaryotic Cell this cell!!)

- Have a Nucleus + organelles
- multicellular → multi-function
- 2 types → Animal / Plant
- More complex + Bigger

Cell membrane = plasma membrane = phospholipid Bi-layer  
Lipid - Biomolecule

Controls what enters + leaves the cell → Security Bouncer  
Selectively Permeable

