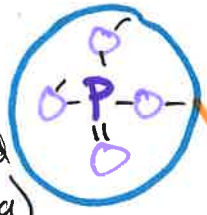
20 # Nucleic Acids: Monomer/Polymer

Nucleotide: monomer of nucleic acid. 3 types, each built of 3 parts

nucleus

Phosphate Group
Same as in lipid
(1,2,3 depending)



5 carbon Sugar

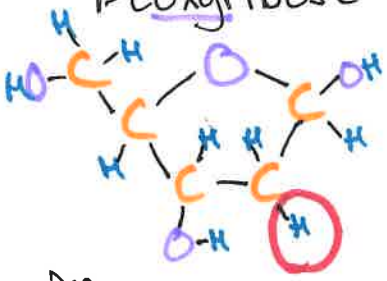
Nitrogenous Base
5 types

1 ring

Thymine
Cytosine
Uracil

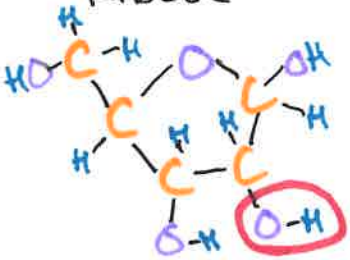
Adenine
Guanine

without oxygen
Deoxyribose

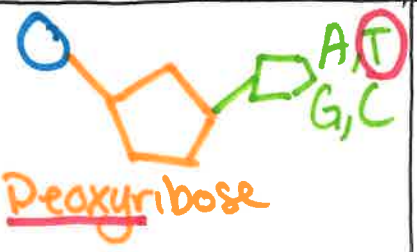
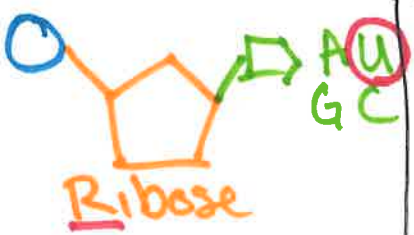
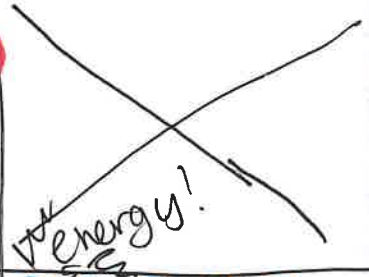
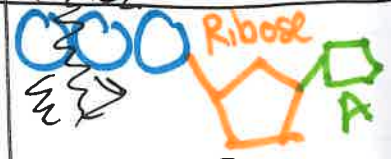


2 ~~or 3~~ versions

Ribose



Adenine
3 phosphate
ATP

	DNA	RNA	ATP
monomer			
Polymer	- Double Strand  - Twists into Helix 	- Single  - Flat 	 loses a P  to ~~react~~ release a tone of energy!
function	encods instructions for ENTIRE organism long term	encodes instructions for 1 protein. Short term	to power cell processes