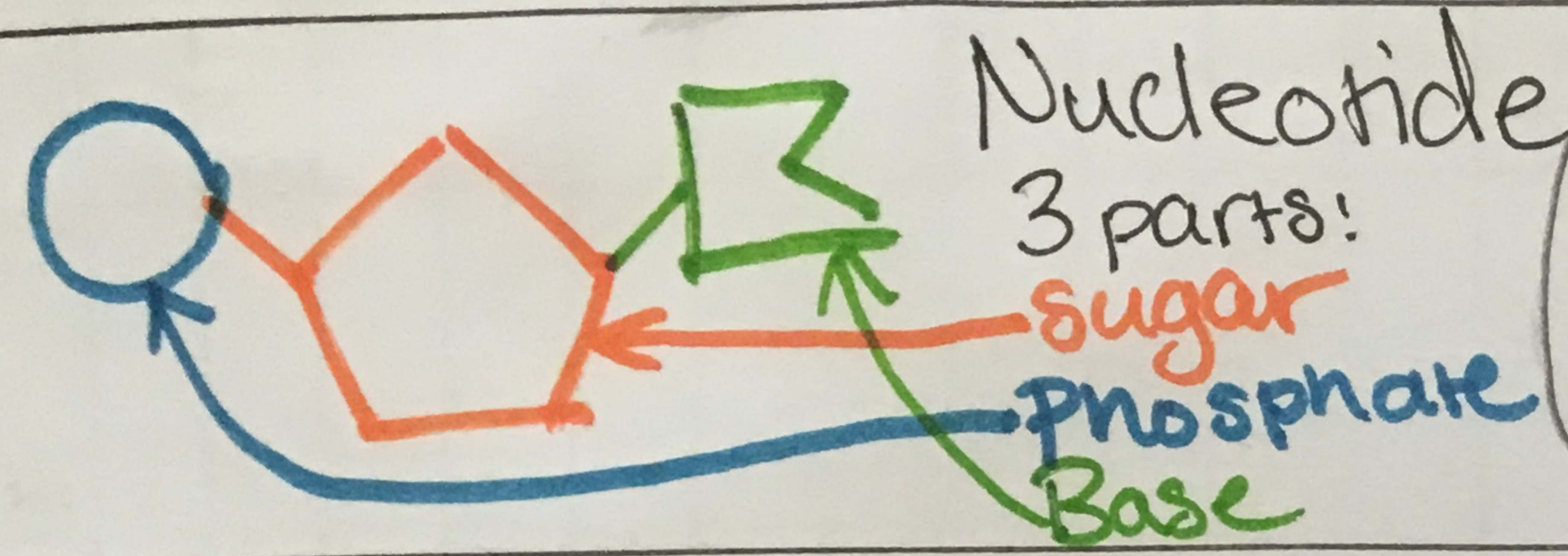


# Nucleic Acid Notes

Monomer

# Adenosine Triphosphate (ATP)

Polymer



**Deoxyribonucleic Acid (DNA)** Genetic info used to pass on traits

**Ribonucleic Acid: (RNA)** short term genetic info

## Nucleotide Structure

	Phosphate	Sugar, 5 Carbon Sugar	Nitrogenous Base 2 types
DNA		<p><b>Deoxyribose</b></p> <p>oxygen missing</p>	<p>Purine</p> <p>Pyrimidine</p> <p>Hydrogen Bonds</p> <p>shaped so purine only fits w/ pyrimidine</p>
RNA		<p><b>Ribose</b></p>	<p>Guanine <math>\equiv</math> Cytosine</p> <p>Adenine <math>\equiv</math> Thymine</p>

Base Pairing Rules:

- 1) Purine Bonds Pyrimidine
- 2)  $A = T(U)$   
 $G \equiv C$
- 3) Based on shape, held with hydrogen bonds

RNA

$G \equiv C$

$A = U$