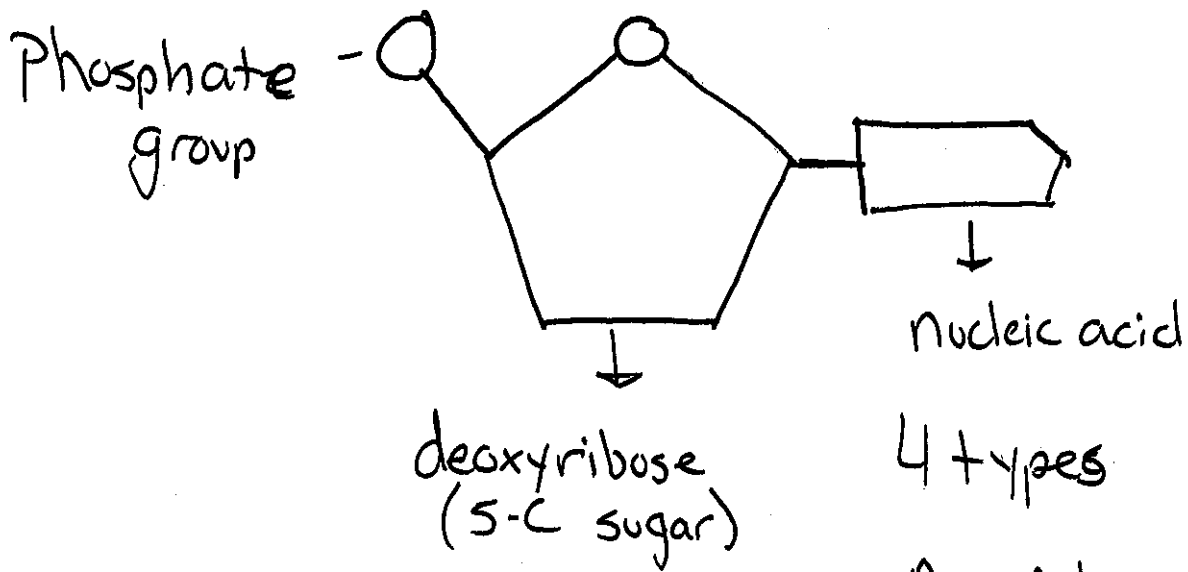


1. Draw + label single nucleic acid



4 types

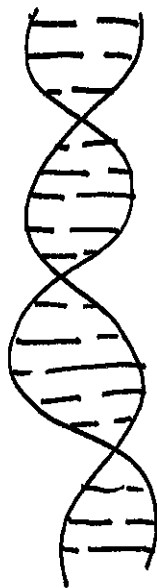
A - Adenine

G - Guanine

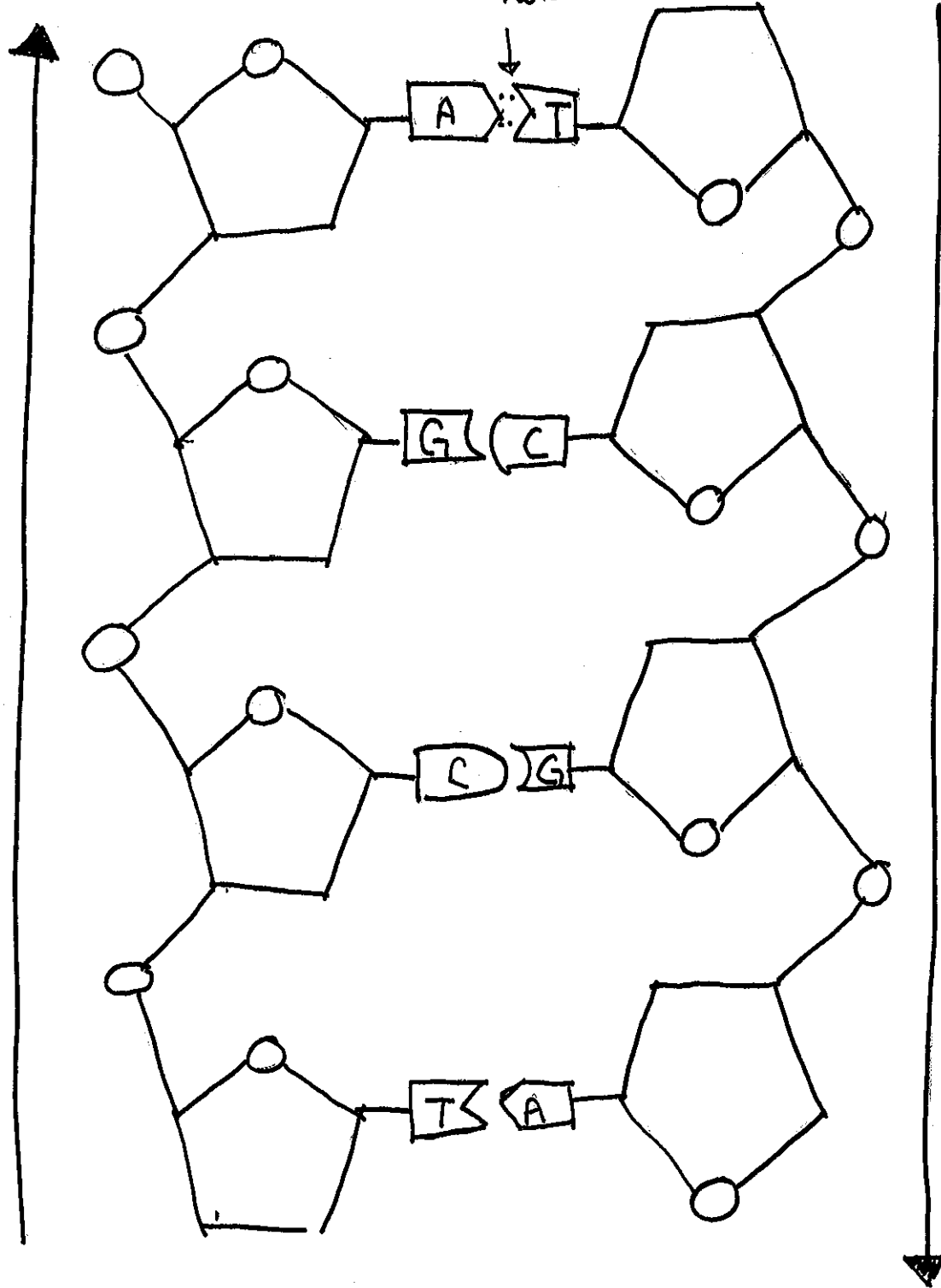
C - Cytosine

T - Thymine

2. DNA is double-stranded
(double-helix)



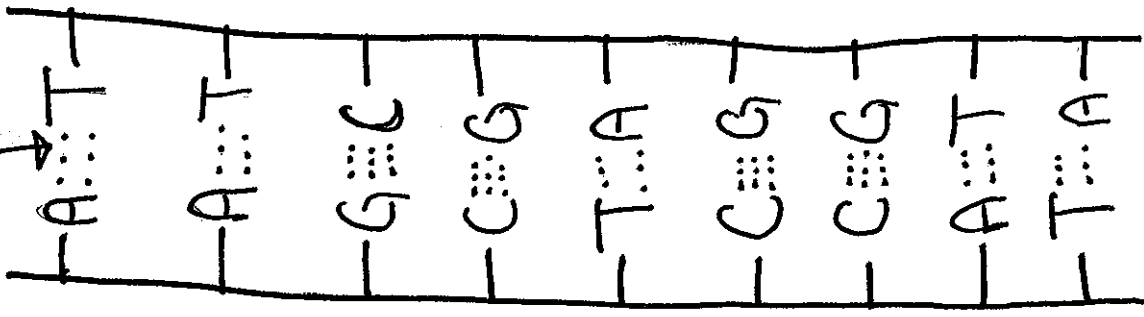
held together by H-bonds



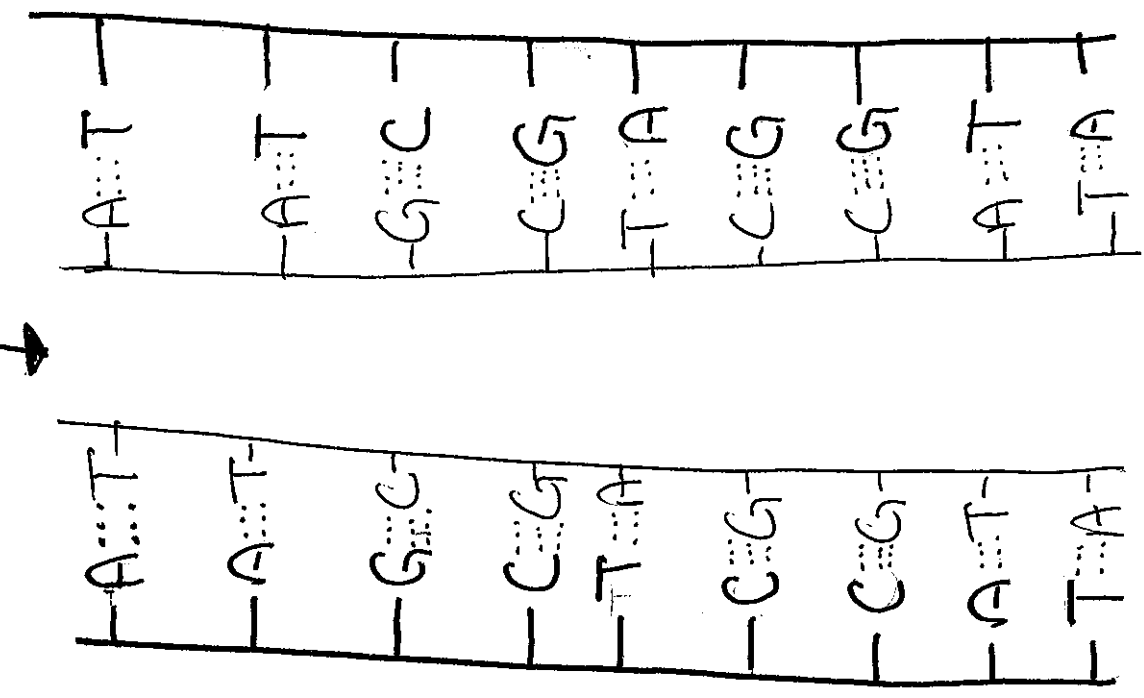
antiparallel

3. DNA Replication

enzyme opens double helix by breaking H-bonds (helicase)



free-floating nucleotides match up



enzyme attaches free-floating nucleotides to each other to make a complete strand

Sister DNA Strands (identical)

* all DNA gets replicated at one time (all 46 chromosomes)