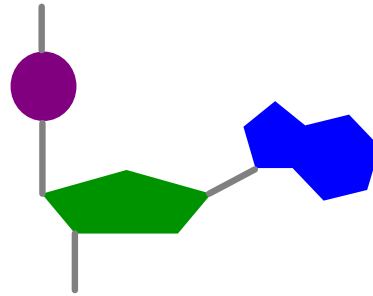
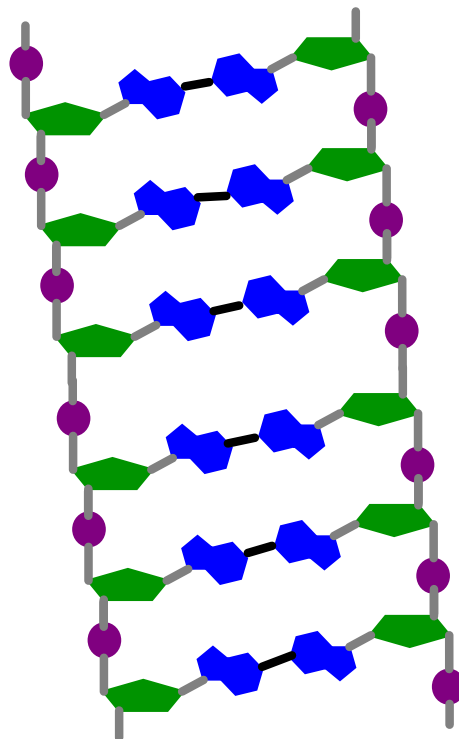


**Nucleotide-**  
**three parts a**  
**sugar, a base,**  
**and a**  
**phosphate**  
**group**

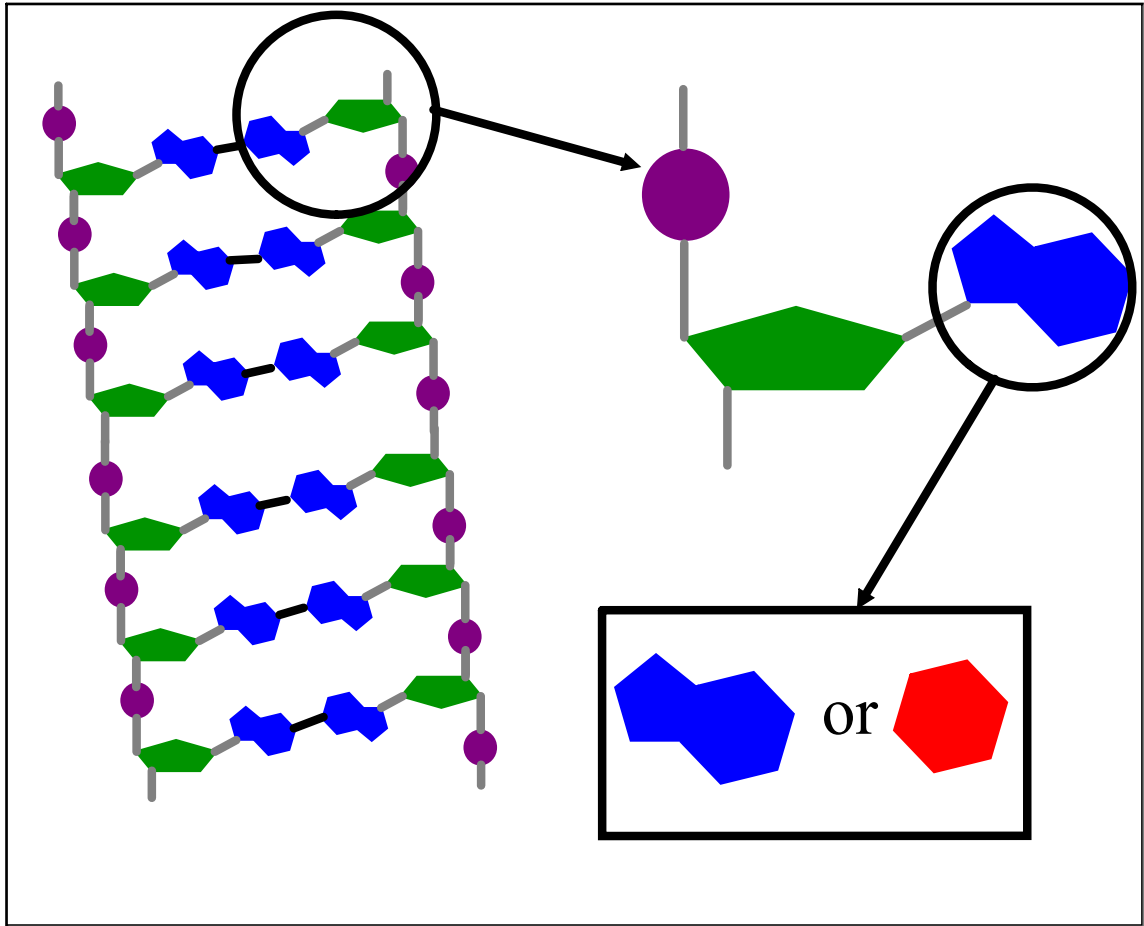


Sep 12 - 4:19 PM

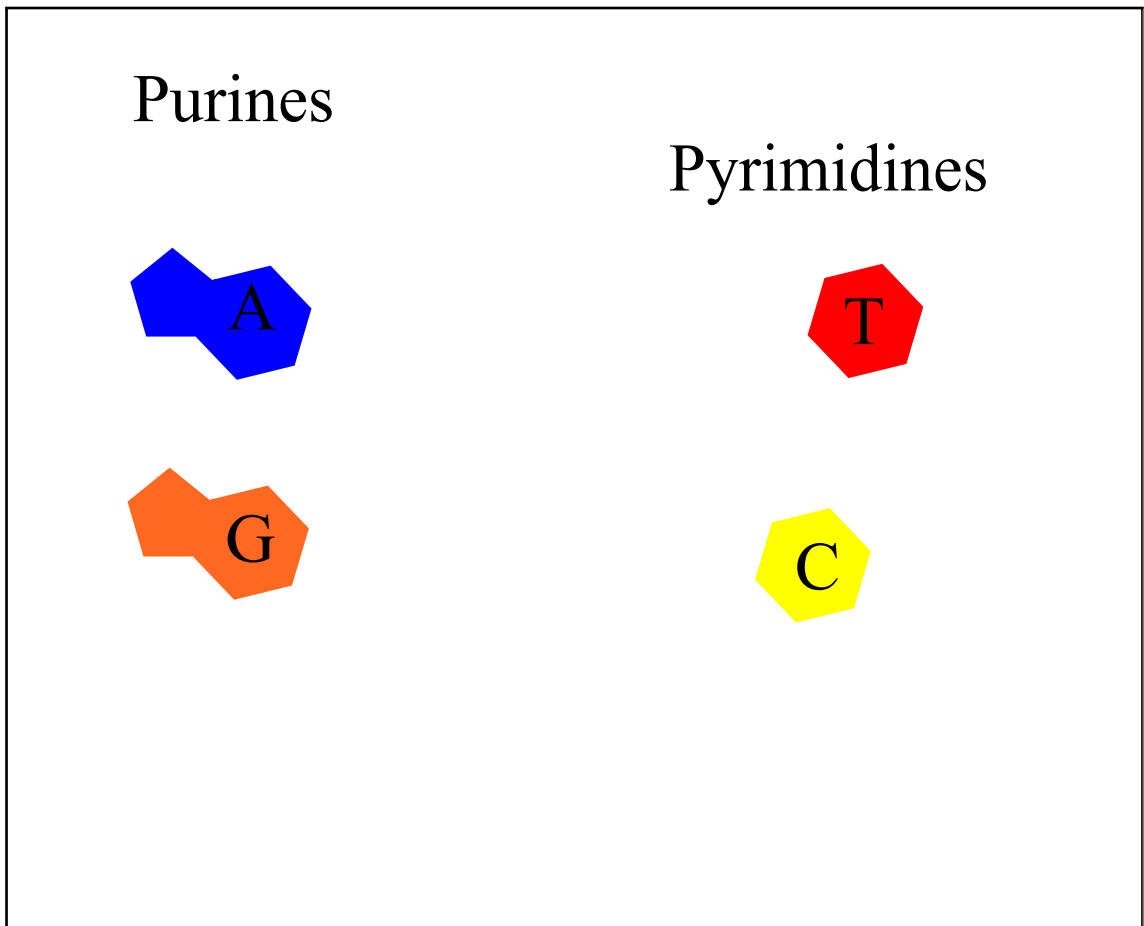
**DNA**



Sep 12 - 4:18 PM

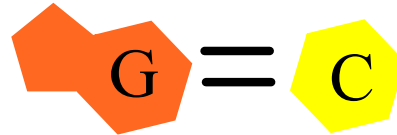
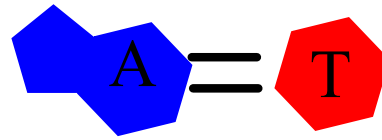


Feb 9 - 12:50 PM



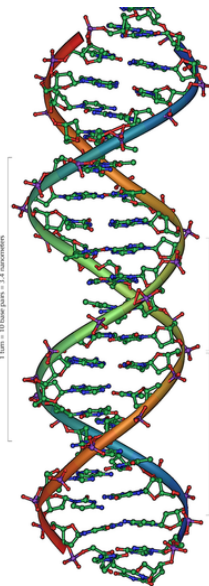
Feb 9 - 12:57 PM

Erwin Chargaff  
 observed that  
 there were  
 always as many  
A as T and  
 always as many  
G as C.



Feb 9 - 1:16 PM

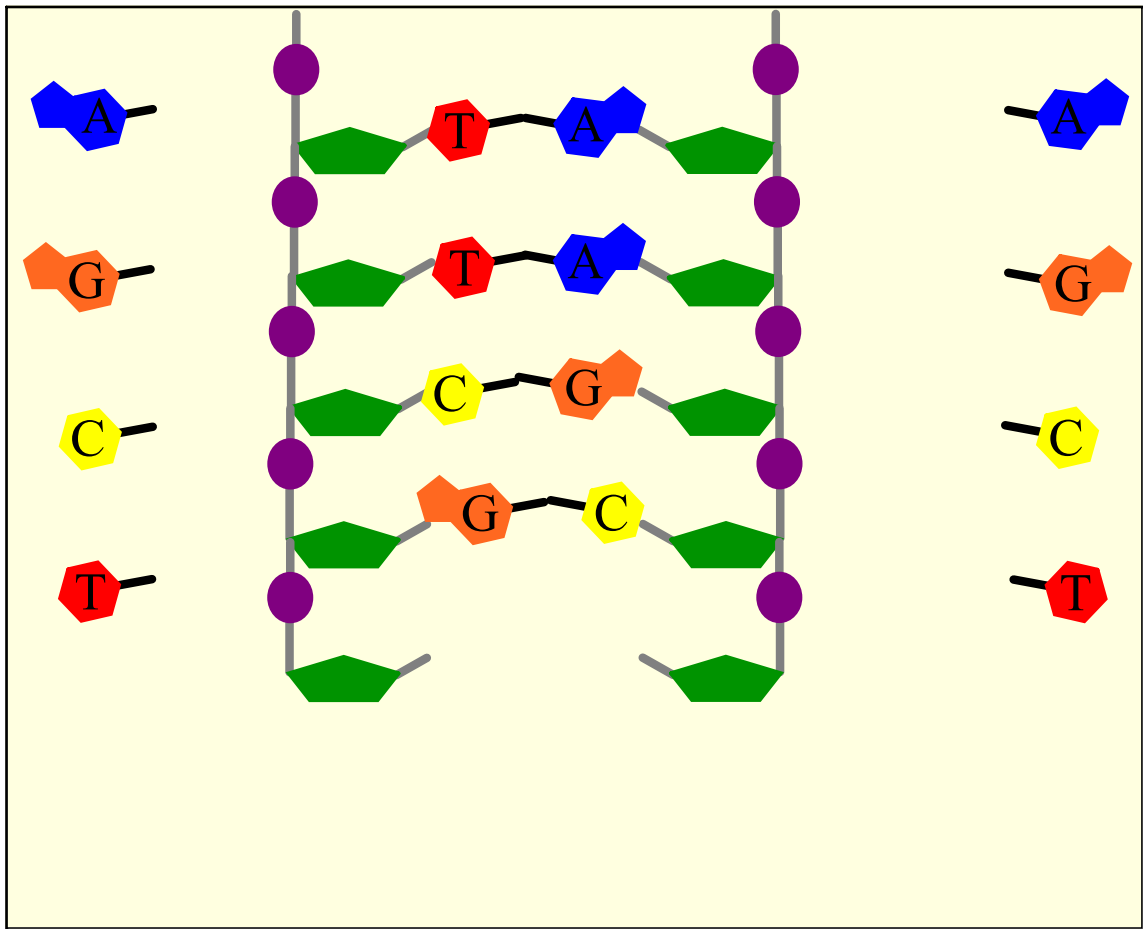
Wilkins and  
Franklin through  
 X-Ray  
diffraction  
 discovered that  
 DNA was a  
tightly coiled  
 helix



Double Helix-  
 two strands  
twisted around  
 each other

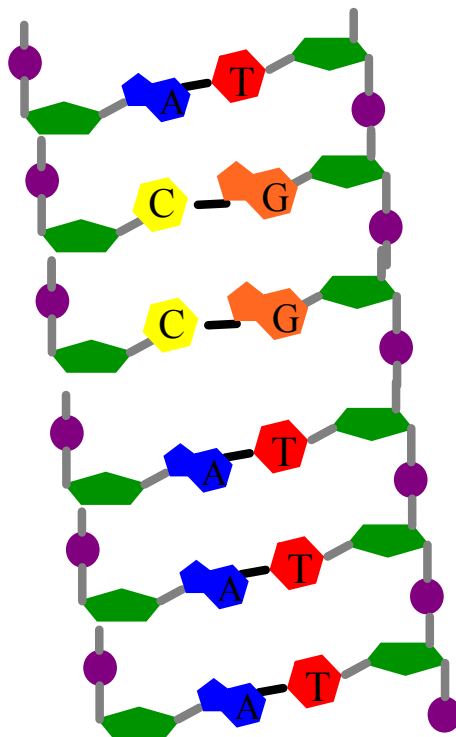
<http://en.wikipedia.org/wiki/DNA>

Feb 9 - 12:45 PM



Final

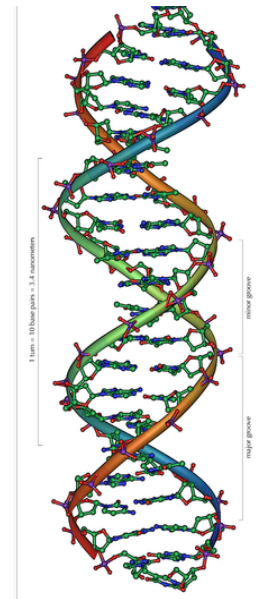
## Base-pairing Rules



Complementary



James Watson  
and  
Francis Crick



<http://en.wikipedia.org/wiki/DNA>

<http://www.time.com/time/time100/scientist/profile/watsoncrick.html>

Feb 9 - 12:41 PM

Which one is its complimentary pair?

TGAACTAGC  
ACTTGATCG

AGTAGTACC  
TGAACTAGC

GCTAGTTCG

Feb 9 - 1:24 PM

# DNA Replication

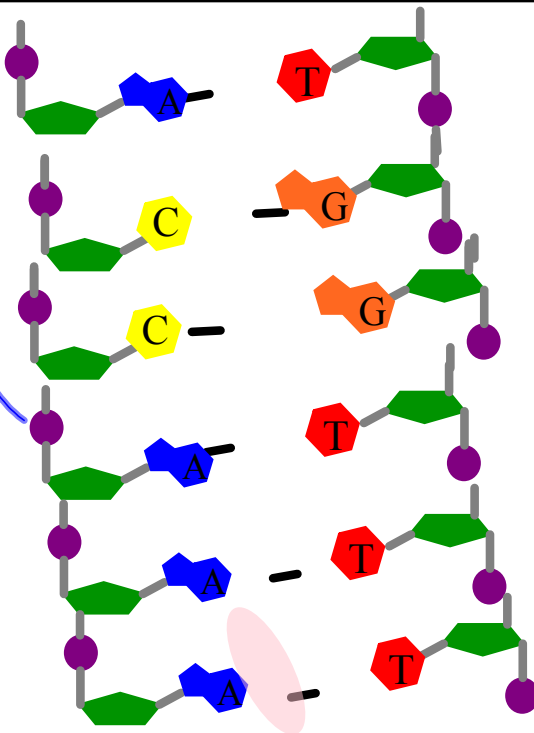
<http://www.ncc.gmu.edu/dna/repanim.htm>



Feb 9 - 1:33 PM

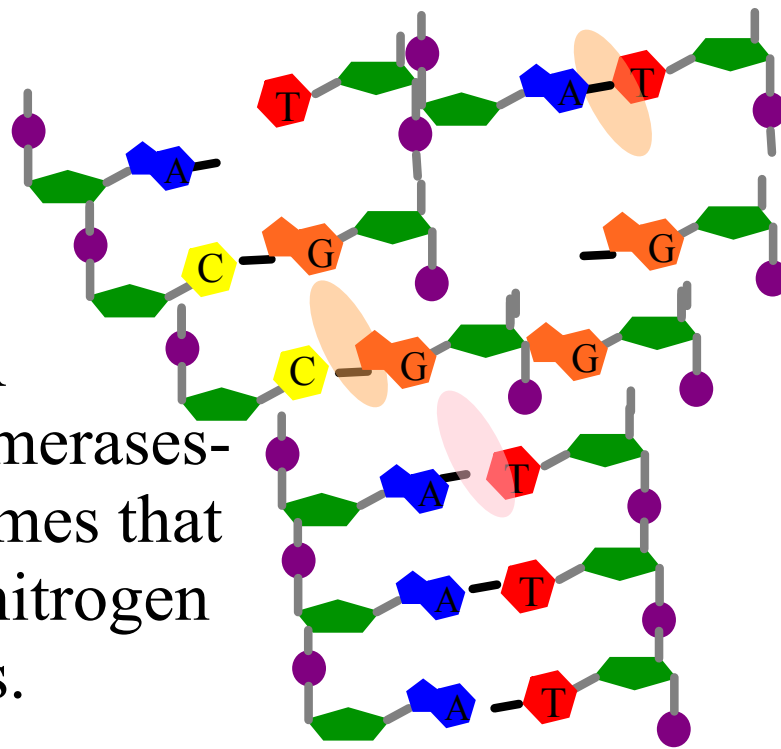
DNA Helicase-  
enzymes that  
open the  
helicase

*think  
zipper*

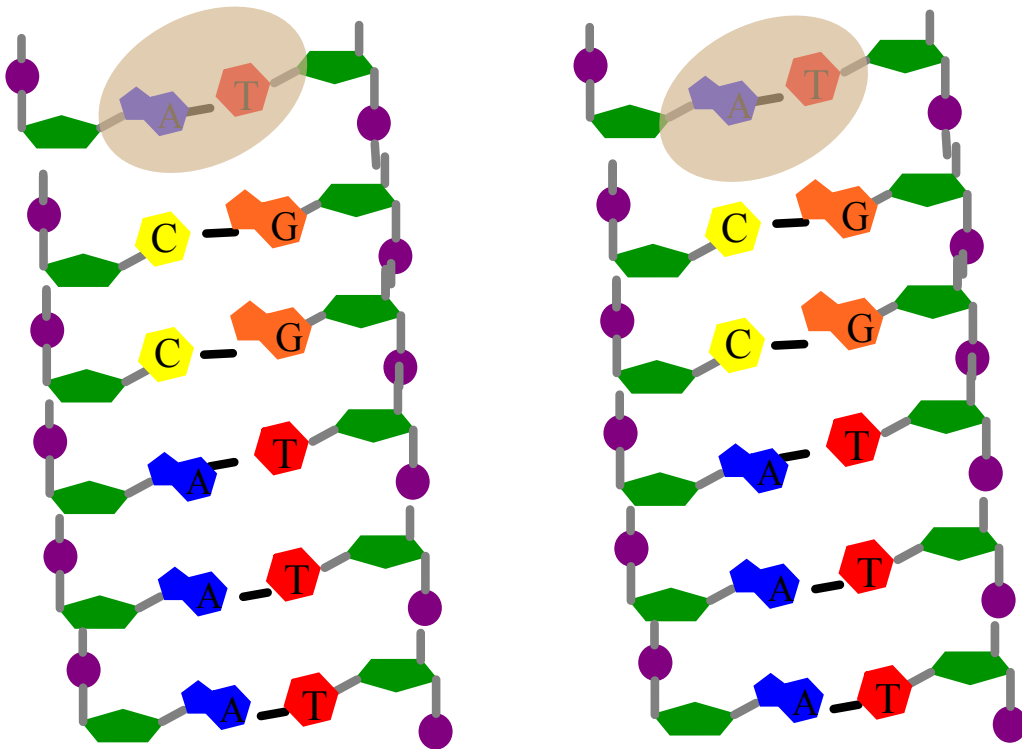


Feb 9 - 1:39 PM

DNA  
Polymerases-  
enzymes that  
add nitrogen  
bases.



Feb 9 - 1:39 PM



Feb 9 - 1:45 PM

Monday

Deoxyribonucleic acid

rib

bone

Mar 7-8:32 AM