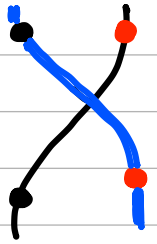
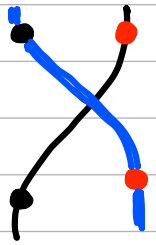
Chapter 26
Structure of DNA

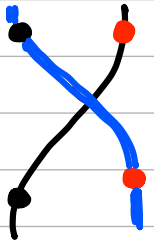
DNA structure was described by -

Year. -



Thermostability



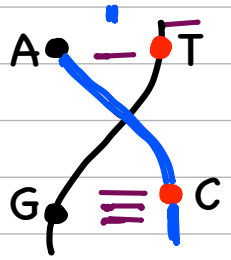


1 2

Chargaff rule

A	T
G	C

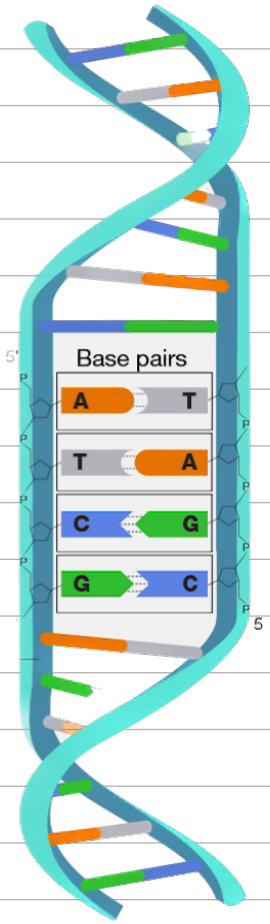
Q - calculate number of A nucleotide
G is 20 %



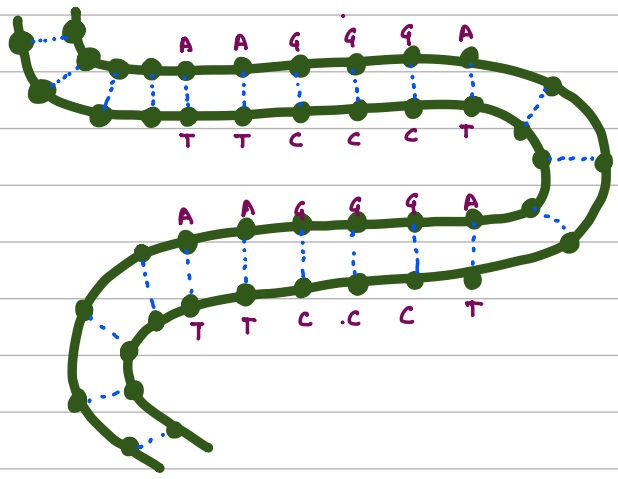
Types of DNA -

Measurement of B-DNA -

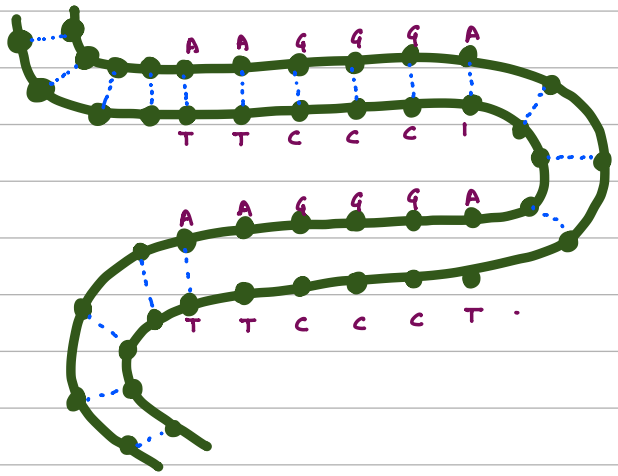




- Major turn =
- One major turn consist of …… base pairs so distance between each base pair is ……A
- Diameter of DNA =



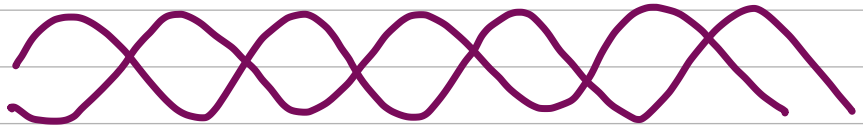
Double strand DNA



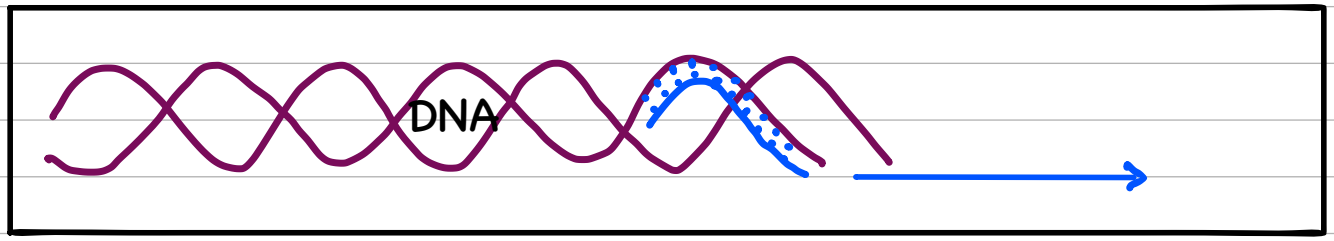
…… strand DNA

Pairing rule -

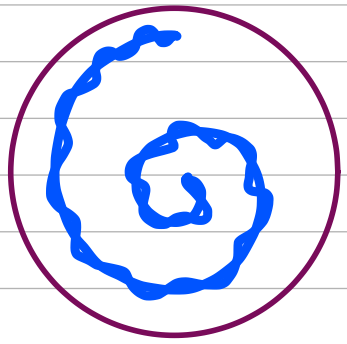
Chromatin







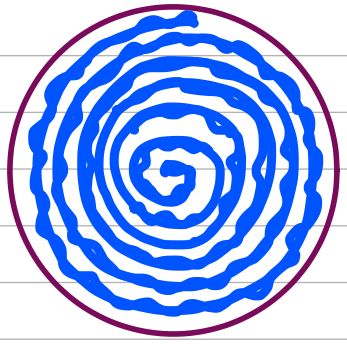
Types of chromatin



……condensed

C/A -

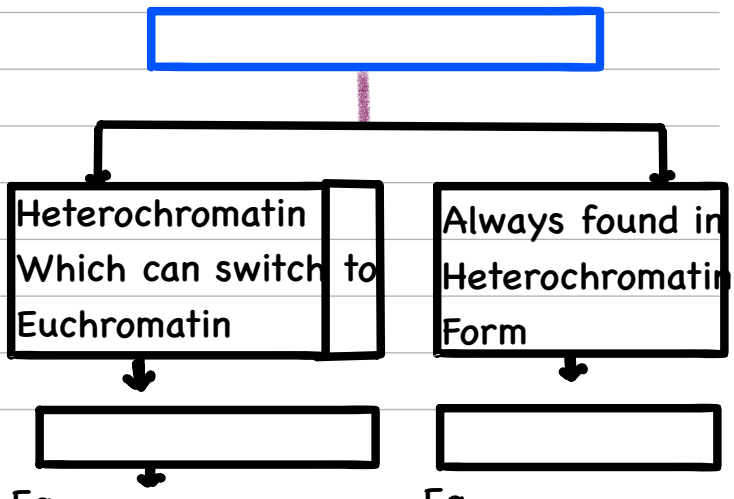
Transcriptionally - ……



……condensed

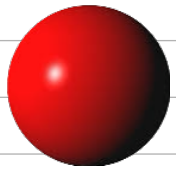
C/A -

Transcriptionally - ……

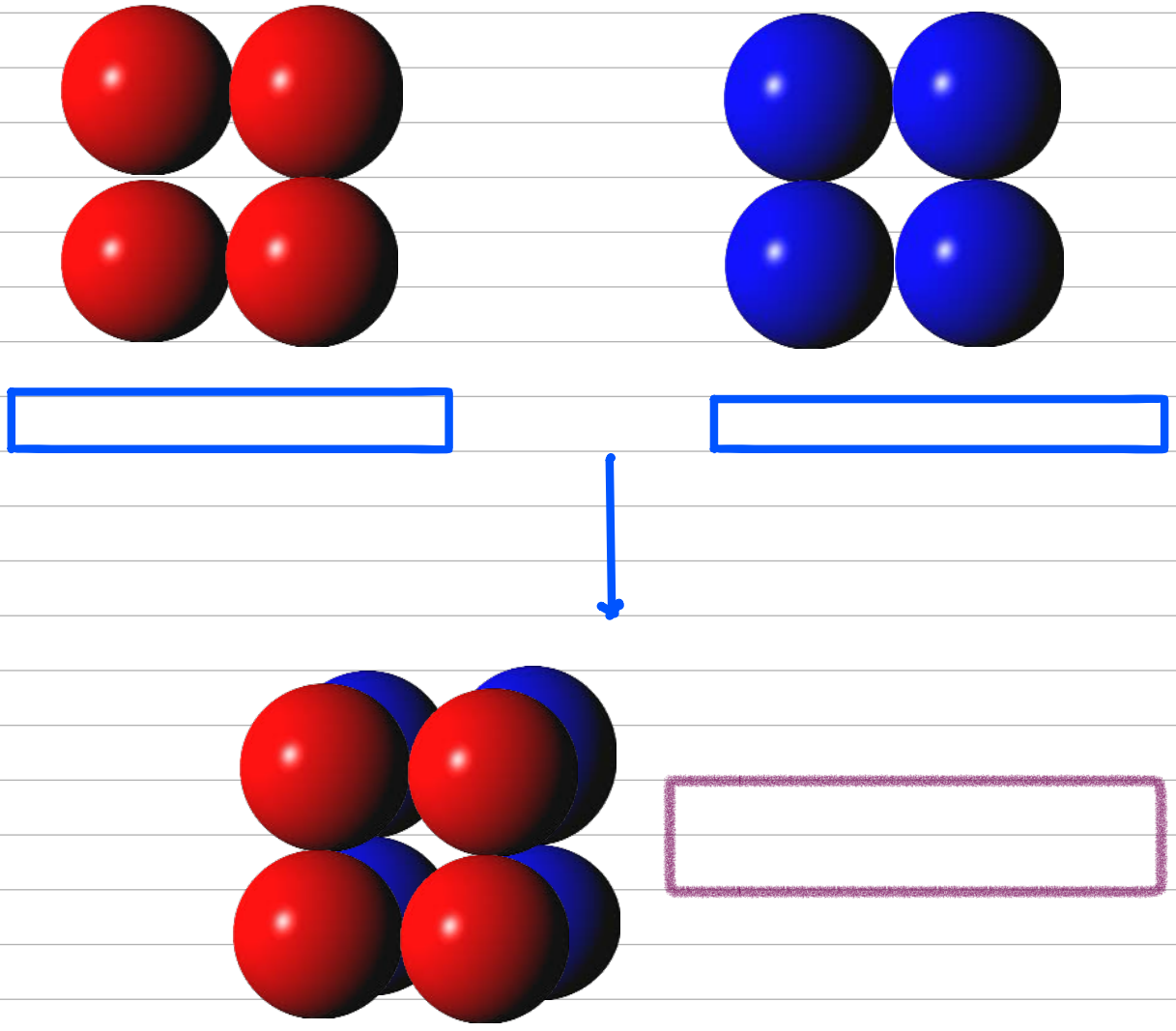


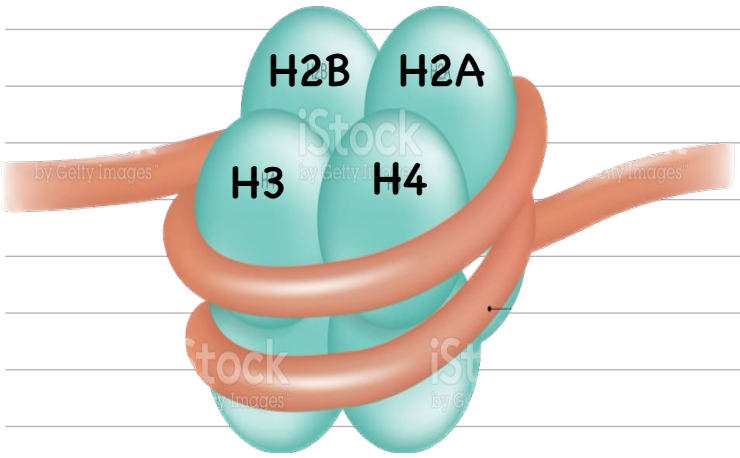
Histone

- Histone is a ……, made up of ……AA
- Shape of histone is –



- Charge on histone is –
- Charge on DNA is –

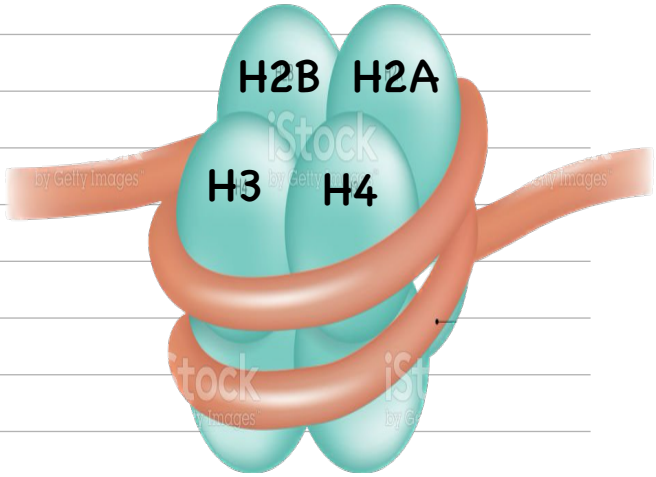




Histone octamer

+

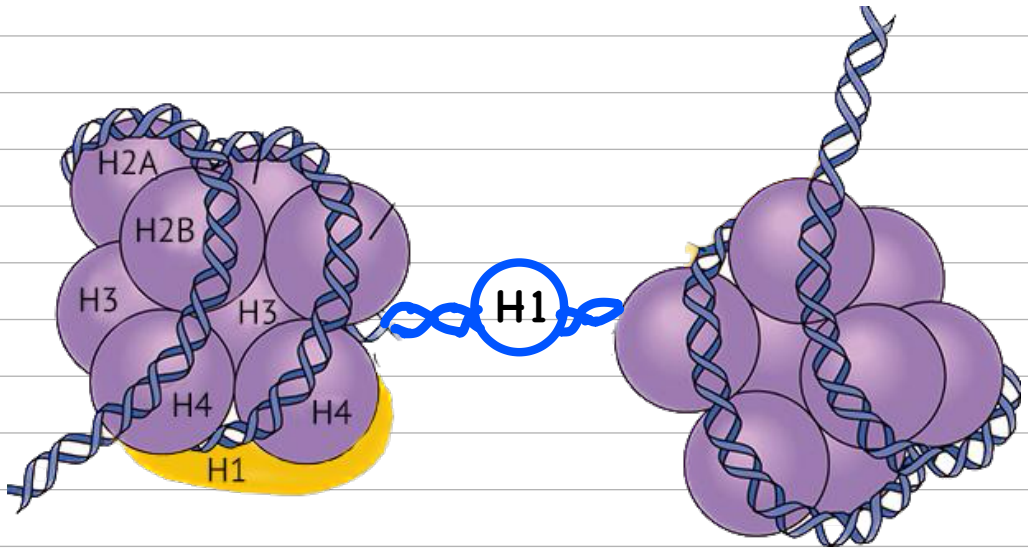
…… Turn



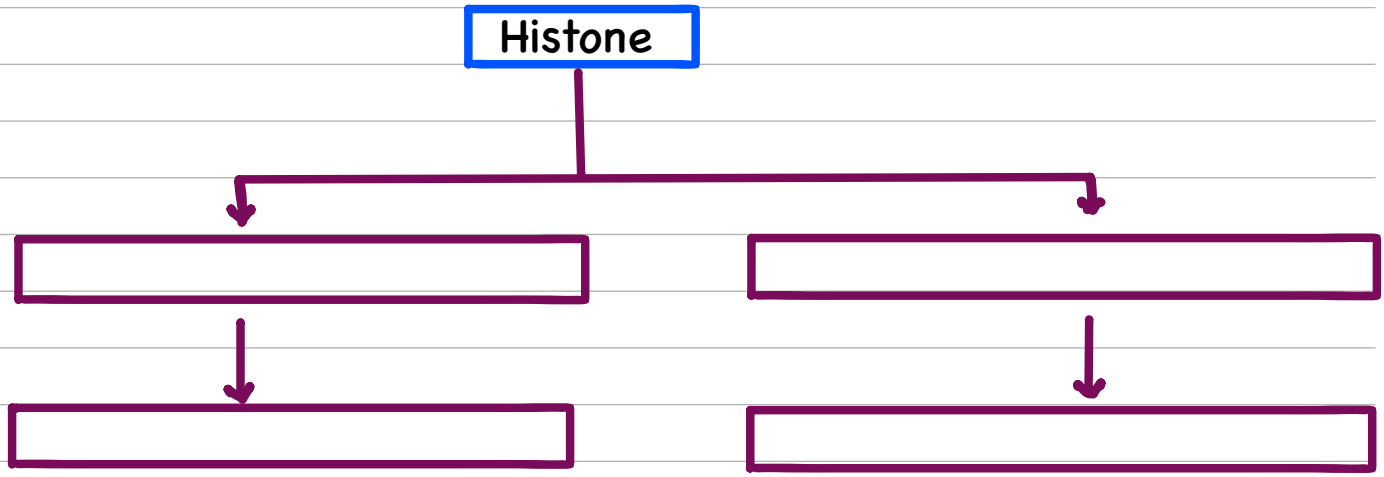
Histone octamer

+

…… Turn



DNA → RNA



Summary -

MC type of DNA - A/B/C/D type

Triple strand DNA is possible due to ……pairing

Condensed form of DNA to get fit into the nucleus c/a ……

Histone is made up of ……AA

Not a part of histone octamer- H1/H2/H3/H4

Acetylation of histone - …… transcription

Methylation of histone - …… transcription.