

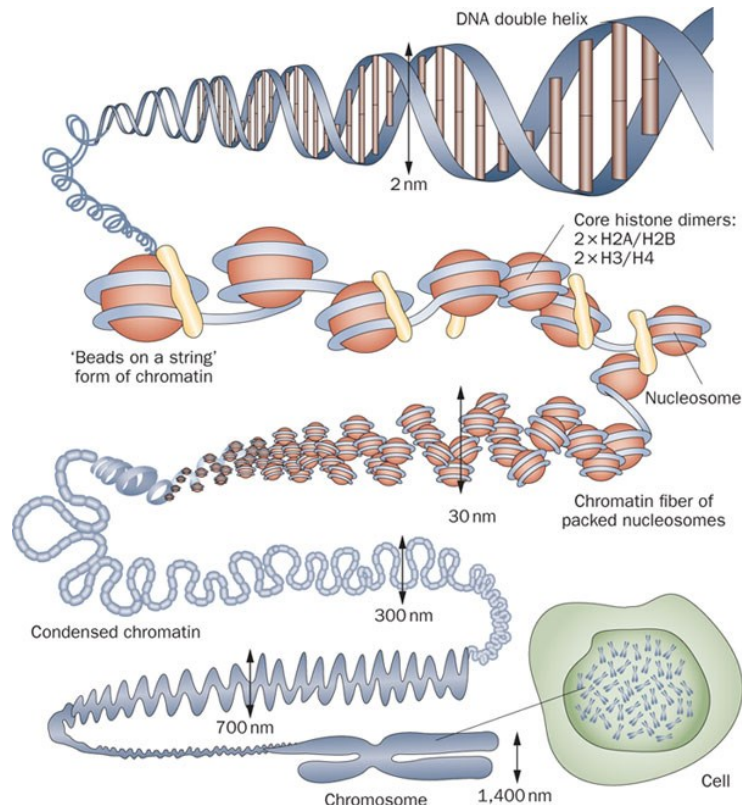
AP Biology Unit 4:
Mendelian Genetics



Mitosis	Both	Meiosis

Why chromosomes?

When are chromosomes present in the cell?



Chromosomes are made of:

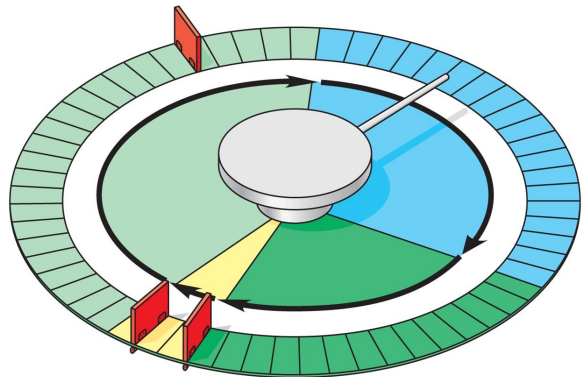


✓ Cell Cycle Control

✓ Checkpoints

✓ Cyclins

✓ Cyclin Dependent Kinases



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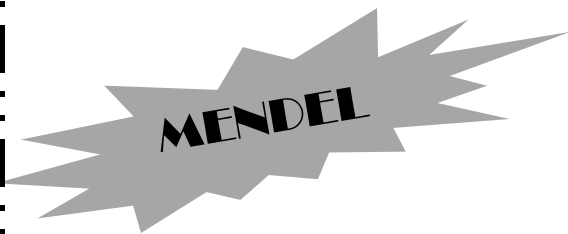


Sexual Reproduction	Asexual Reproduction
Benefits: Drawbacks:	Benefits: Drawbacks:

**Measuring Gene Distance and Crossover– how to?
How can you tell chromosomes are close together?**

Linked Genes– define and explain

Sex Chromosomes– identify each, explain relationship of X chromosome to inherited disease



Important Terms

Gene

Allele

Homozygous

Heterozygous

P generation

F1 Generation

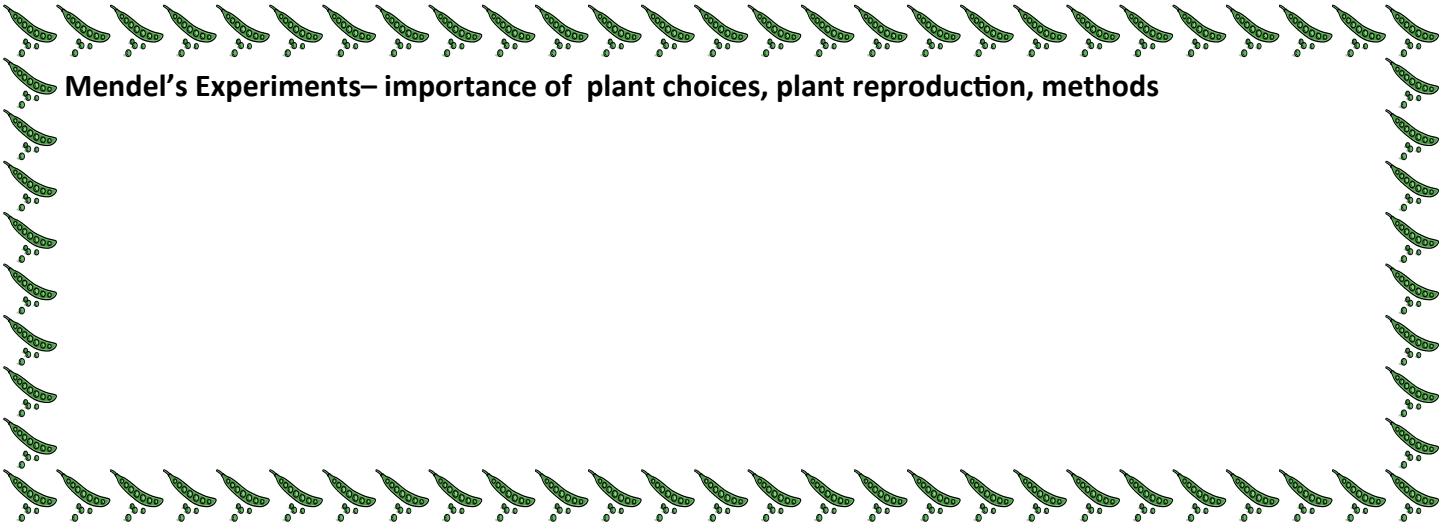
F2 Generation

Mendel's Laws

Law of Dominance

Law of Segregation

Law of Independent Assortment



Mendel's Experiments– importance of plant choices, plant reproduction, methods

Analyzing Pedigrees– show symbols. Complete pedigree assignment.

Monohybrid vs. Dihybrid Crosses– use the handout provided to write the rules for solving both types of crosses below.

