MEIOSIS: PRACTICAL 2025

Life Sciences



Key Concepts: MEIOSIS PRACTICAL

TERMINOLOGY

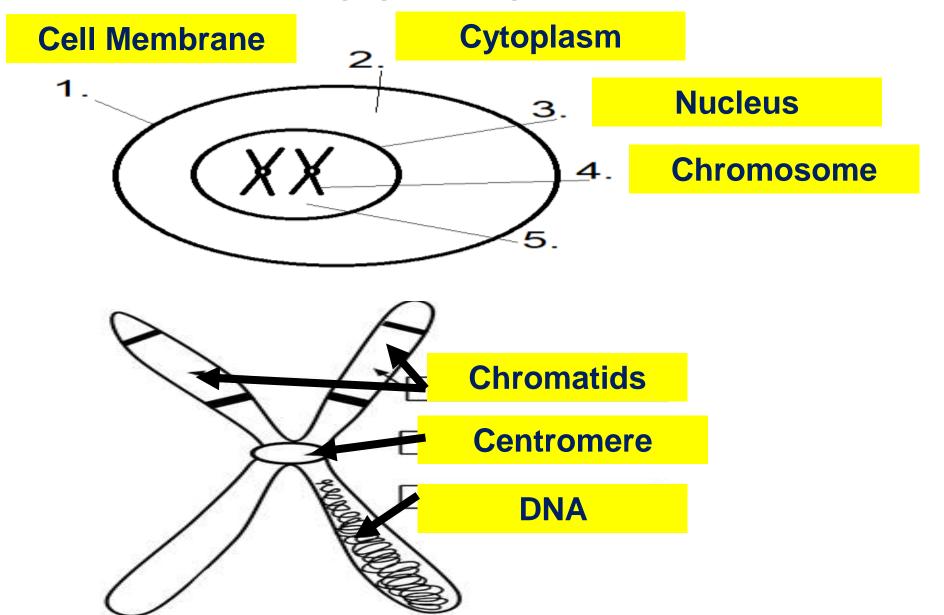
IDENTIFY ALL PHASES OF MEIOSIS

• DRAW AND LABEL ACCORDING TO NUMBER OF CHROMOSOMES

GENERAL DIFFERENCES MEIOSIS I & II

COMPARE PHASES eg PROPHASE I & II

DNA: THE CODE OF LIFE



Chromosome

A structure found in the nucleus of a cell that consists of 2 threadlike chromatids, each containing a single DNA molecule bound by a centromere.

Function of Centromere: Binds 2 chromatids together to form a chromosome.

Homologous Pair of Chromosomes

A pair of chromosomes that have the same genes at the same locations. The 2 chromosomes are similar in size and structure.

Chromatid

One of 2 identical threads of a chromosome.

Centriole

2 small structures in the cytoplasm of the cell that move to opposite poles of the cell during cell division.

Function

Produce spindle fibres.

Spindle Fibres are structures for the attachment of chromosomes. They contract to pull chromosomes to opposite poles of the cell.

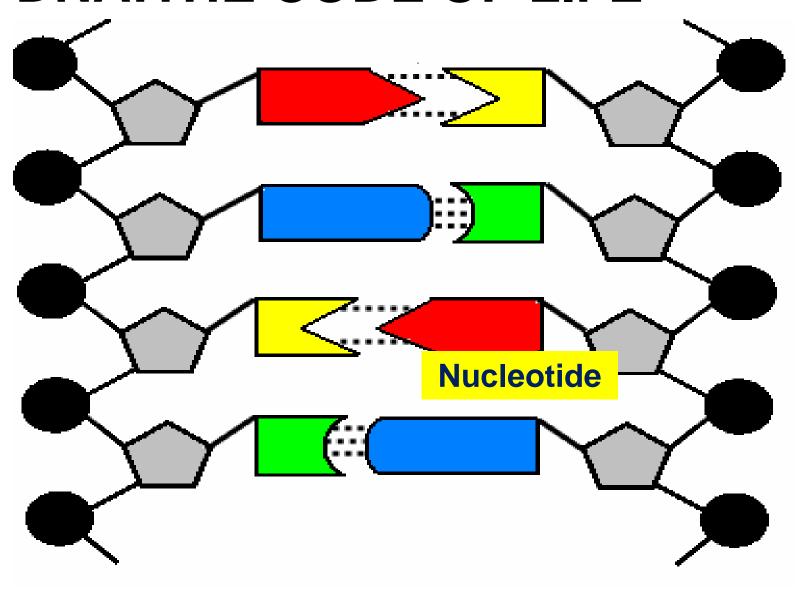
Diploid

A cell containing 2 sets of chromosomes, one set from each parent.

* Haploid

A cell with one set of chromosomes. The chromosomes are not in pairs (single).

DNA:THE CODE OF LIFE



Gene

A segment of a DNA molecule coding for a particular characteristic.

* Genetic Variation is caused by differences in the nucleotide sequences. Crossing Over & Random Arrangement of chromosomes lead to variety in offspring.

Crossing Over

The exchange of genetic material between 2 non-sister chromatids during Prophase I of Meiosis.

MEIOSIS

This process occurs only in testes (m) and ovaries (f)

