

MEIOSIS

<u>Phase of Cell Cycle</u>	<u>Event</u>
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MEIOSIS 1 = “First Meiotic Division”

Interphase 1	<ul style="list-style-type: none"> • Cell Growth and Metabolism • DNA is duplicated
Prophase 1	<ul style="list-style-type: none"> • Chromatin Condenses • Nuclear membrane breaks down • Homologous Chromosomes pair up = SYNAPSIS • Chromosome “arms” overlap & connect at CHIASMATA • Joined Homologous Chromosome pairs = TETRADS
Metaphase 1	<ul style="list-style-type: none"> • Tetrads line up at metaphase plate
Anaphase 1	<ul style="list-style-type: none"> • Homologous Chromosomes separate • Entire Homologous chromosomes move to opposite ends of cell
Telophase 1	<ul style="list-style-type: none"> • Nuclear membrane reforms partially • DNA partially uncondenses
CYTOKINESIS	<ul style="list-style-type: none"> • Division of Cytoplasm

MEIOSIS 2 = “Second Meiotic Division”

Prophase 2	<ul style="list-style-type: none"> • Chromatin Condenses • Nuclear membrane breaks down
Metaphase 2	<ul style="list-style-type: none"> • All chromosomes line up at metaphase plate
Anaphase 2	<ul style="list-style-type: none"> • Sister chromatids separate
Telophase 2	<ul style="list-style-type: none"> • Nuclear membrane reforms around 2 new nuclei • DNA completely uncondenses
CYTOKINESIS	<ul style="list-style-type: none"> • Division of Cytoplasm • Total of four 1n cells at the end of Meiosis 2