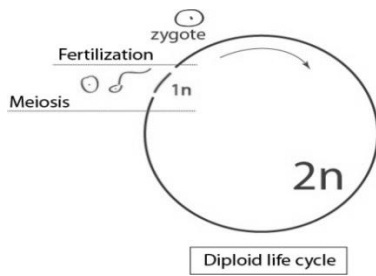
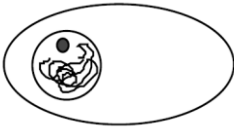


Meiosis

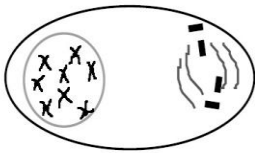


Interphase



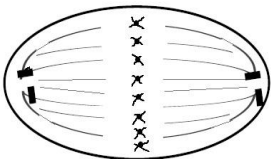
- DNA is replicated
- Each chromosome duplicates to become 2 sister chromatids, but they are loosely coiled, so not visible yet.

Prophase I



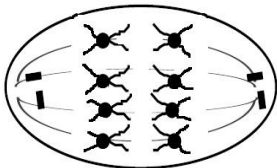
- Nuclear envelope disintegrates.
- Chromosome start to become visible because they coil, shorten & thicken (condense).
- Centrioles (in animal cells) begin to make spindle fibers to move the chromosomes around.
- Homologous chromosomes pair (synapsis) up to form bivalents.
- They swap portions of chromatid at crossing-over

Metaphase I

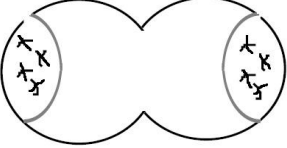
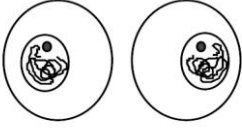

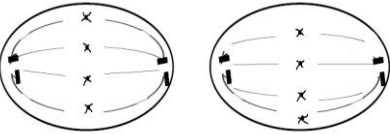
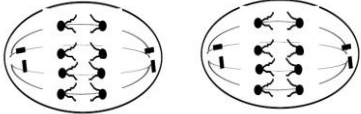
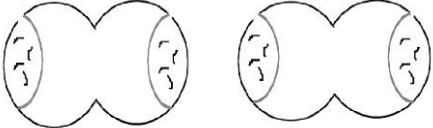


- Bivalents move to the center of the cell along protein tubules called spindle fibers.
- They line up on the equator of the spindle fibers.

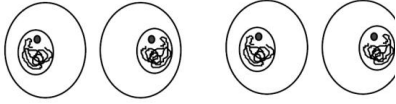
Anaphase I



- Spindle fibers contract and pull the chromosome pairs apart.

<p>Telophase I</p> 	<ul style="list-style-type: none"> Chromosomes arrive at the poles of the cell The cell divides into two
<p>Cytokinesis</p> 	<ul style="list-style-type: none"> Physical process of cell division, which divides the cytoplasm of a parental cell into two daughter cells.
<p>Prophase II</p> 	<ul style="list-style-type: none"> Chromosomes relax, then condense again A second set of spindle fibers forms at right angles to the spindle fibers in the first division.
<p>Metaphase II</p> 	<ul style="list-style-type: none"> Chromosomes line up on equator of the spindle fibers. Note spindle fibers form at right angles to 1st division
<p>Anaphase II</p> 	<ul style="list-style-type: none"> Spindle fibers contract, centromeres split, & chromatids are pulled apart Once pulled apart they are called chromosomes
<p>Telophase II</p> 	<ul style="list-style-type: none"> Chromosomes arrive at the poles of each cell Each cell divides into two Four sex cells (gametes) are made

Cytokinesis



- Physical process of cell division, which divides the cytoplasm of a parental cell into two daughter cells.