

What is meant by:

Chromatin

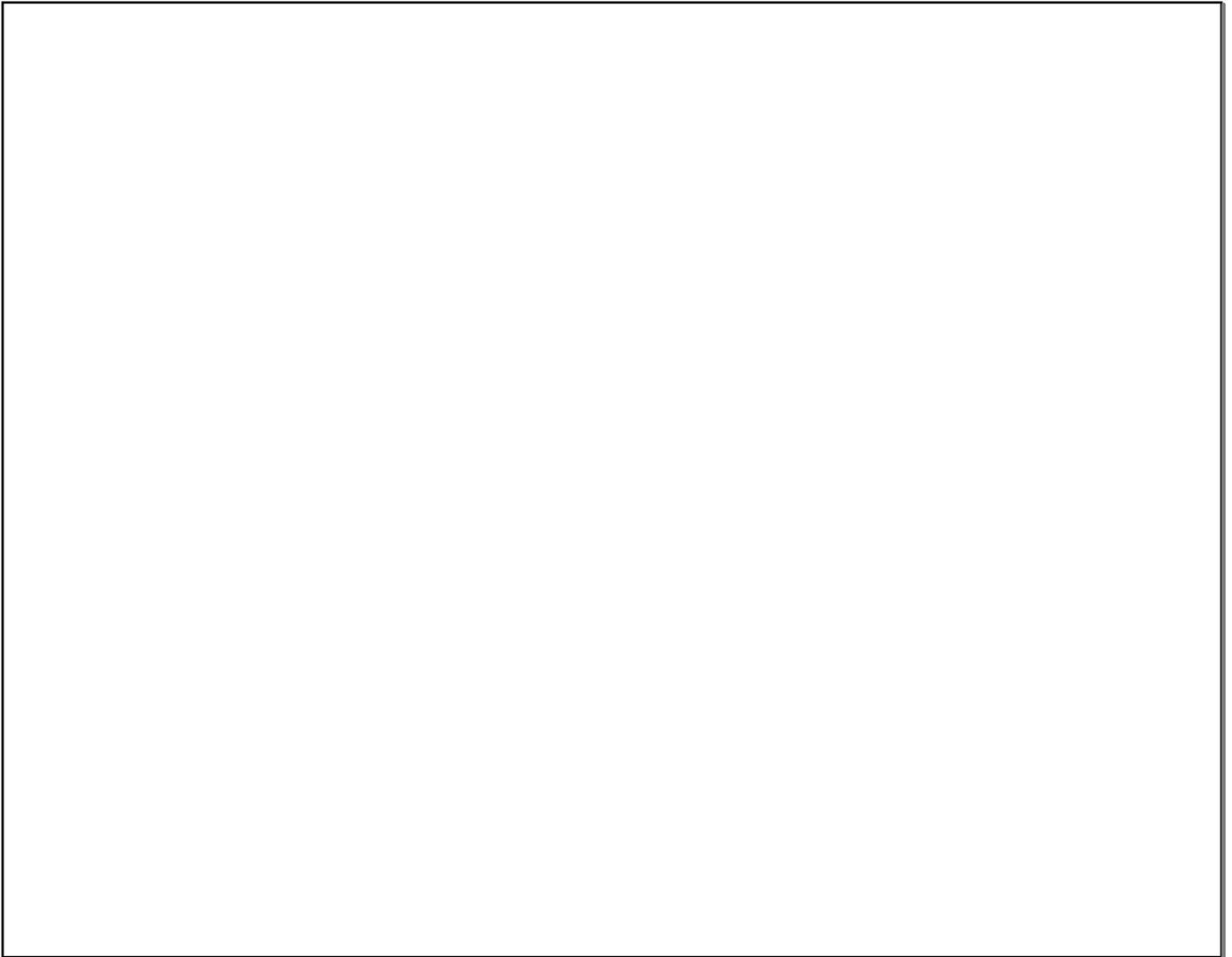
Duplicated Chromosome

Sister Chromatids

Spindle Apparatus

Centrioles

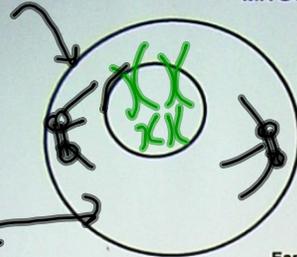
Spindle Fibers



MITOSIS...what is going to happen?

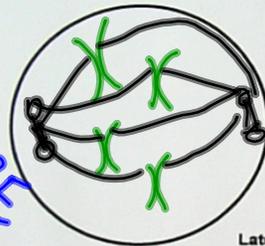
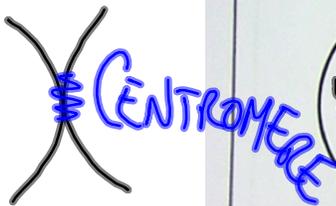
SPINDLE FIBERS

CENTRIOLES



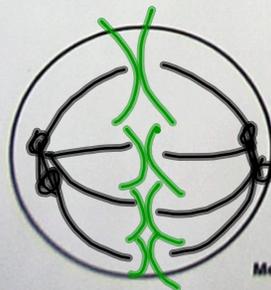
Early Prophase

* NUCLEAR MEM. BREAKS DOWN
* CENTRIOLES MOVE TO OPPOSITE POLES & MAKE SPINDLE FIBERS



Late Prophase

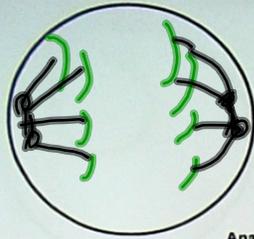
"SPINDLE" FORMS DUE TO SPINDLE FIBERS MADE @ CENTRIOLES ATTACHING TO CENTROMERE OF EACH DUP. CHROMO.



Metaphase

* SPINDLE FIBERS WILL MOVE DUPLICATED CHROMOSOMES TO THE EQUATOR LINE UP HEAD TO TOE.

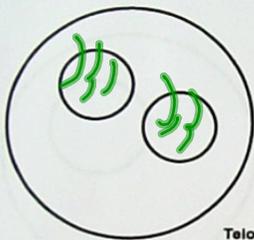
MITOSIS and CYTOKINESIS



* SHORTENING OF SPINDLE FIBERS WILL SEPARATE DUP. CHROMO. & PULL

UNDUP. CHROMO. TO

OPPOSITE POLES.



2 NEW NUCLEI FORM

Mitosis OVER

CYTOKINESIS

CELL DIVISION

INTERPHASE

CLEAVAGE FURROW

Animal Cell

Plant Cell

CELL PLATE

