

What is meant by:

Chromatin

Duplicated Chromosome

Sister Chromatids

Spindle Apparatus

Centrioles

Spindle Fibers

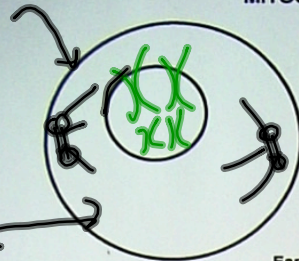


SPINDLE
FIBERS

CENTRIOLES

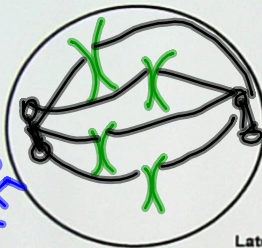
CENTROMERE

MITOSIS...what is going to happen?



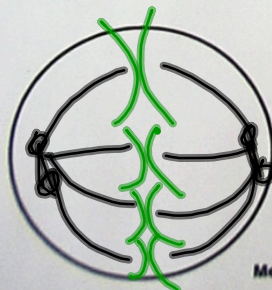
Early Prophase

* 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.

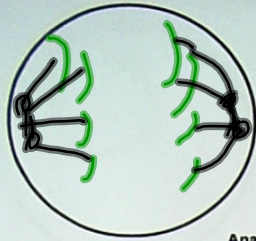


Metaphase

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

X

MITOSIS and CYTOKINESIS

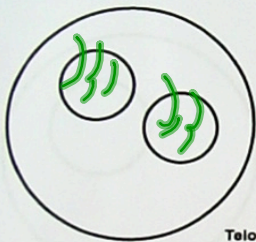


Anaphase

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

UNDUP. CHROMO. TO

OPPOSITE POLES.



Telophase

2 NEW NUCLEI FORM

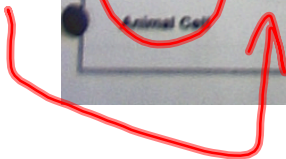
Mitosis OVER

CYTOKINESIS

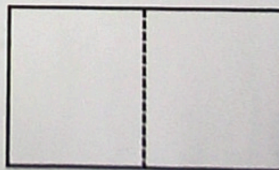
CELL DIVISION

INTERPHASE

CLEAVAGE FURROW



Animal Cell



Plant Cell

↑ CELL PLATE

