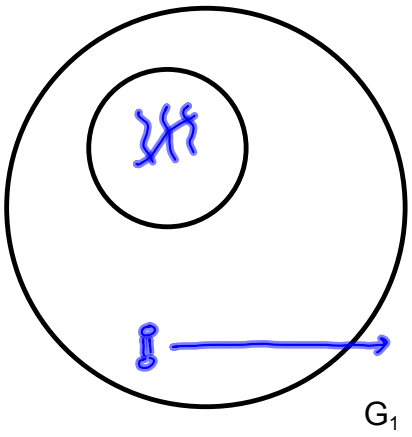
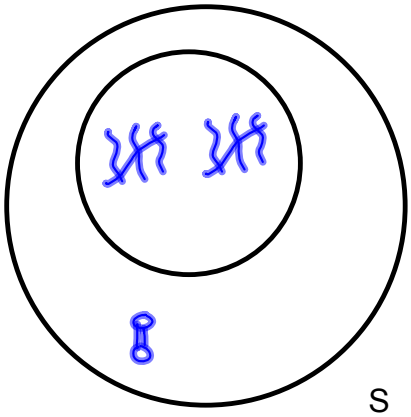
INTERPHASE



Chromatin => in thin tangled mass perfect for protein making

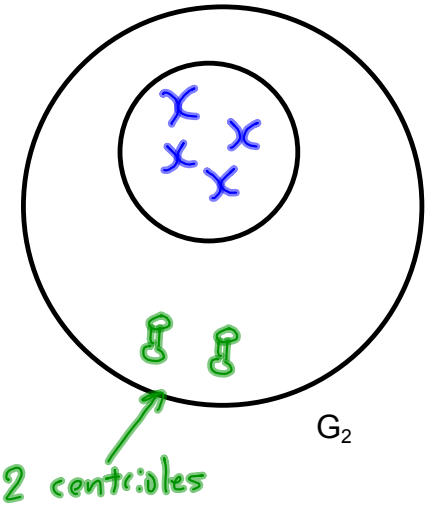
1 centriole

G_1



DNA is copied . . . which will become sister chromatids

S

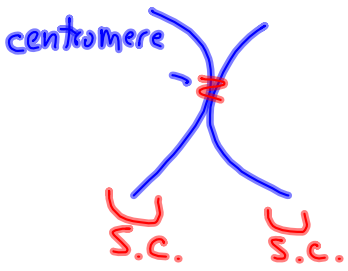


2 centrioles

G_2

Inside Nucleus

DNA coils, condenses, and joins to its duplicate to form:



Duplicated Chromosome

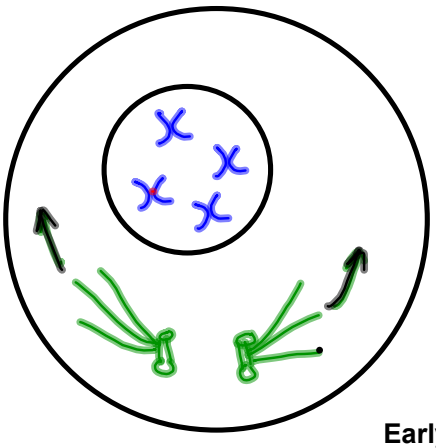
Outside Nucleus

Everything grows/doubles

MITOSIS...what is going to happen?

Nuclear Division – DNA divided equally

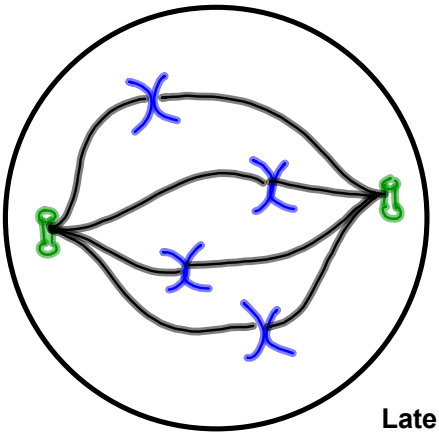
Spindle Formation
- centrioles move toward opposite poles and make spindle which will attach to the centromere of the duplicated chromosome



Early Prophase

1.) Nuclear membrane dissolves

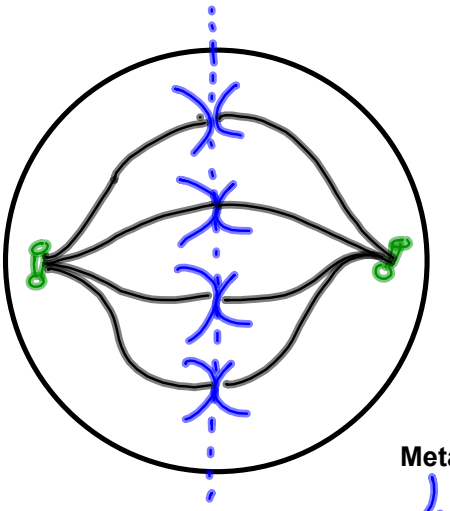
2.) Spindle Formation Complete
- Centrioles have moved to the poles and fibers are attached to the centromere of duplicated chromosomes



Late Prophase

Spindle Fibers move duplicated chromosomes to the equator

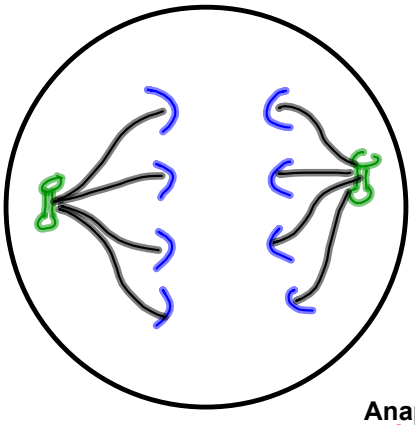
Align head to toe



Metaphase

middle

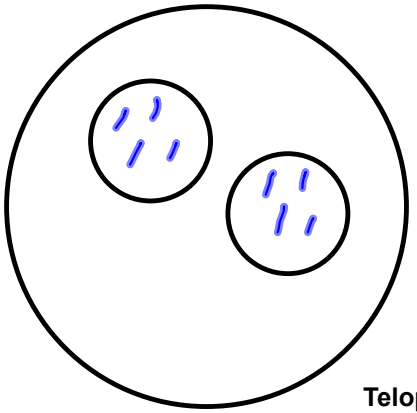
MITOSIS and CYTOKINESIS



Anaphase

Spindle fibers will separate duplicated chromosomes (sister chromatids) and pull unduplicated chromo to the poles

separate



Telophase

Nuclear membrane forms

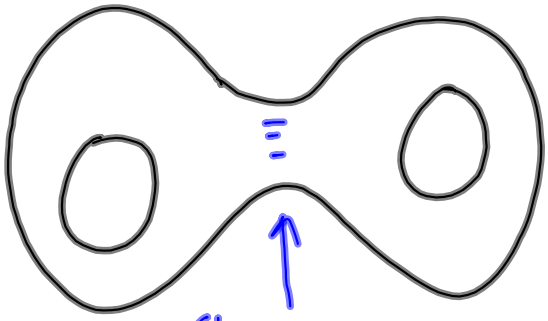
1 Cell, 2 Nuclei

Mitosis OVER

Cell Division

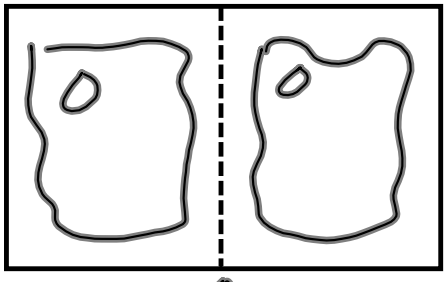
CYTOKINESIS

INTERPHASE



Cleavage Furrow

Animal Cell



Cell Plate

Plant Cell