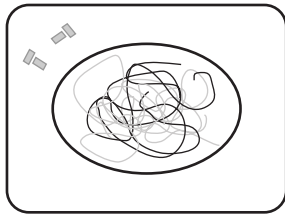
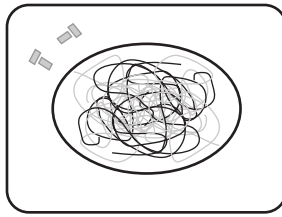


## Interphase



Parental Cell  
(DNA as chromatin)

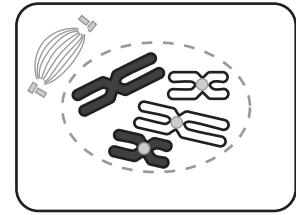
## Interphase



Parental Cell  
(DNA duplicates)

## Prophase

Condensation  
(DNA in chromosome form)  
Nuclear envelope disappears  
Centrioles form spindle



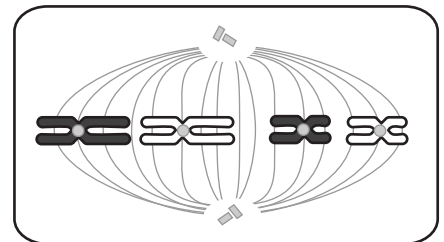
# Cell Division (Mitosis and Cytokinesis)

Cell division consists of two processes: (1) Mitosis: nuclear division, and (2) Cytokinesis: cytoplasm division. Mitosis begins at prophase and continues through telophases. Note that cytokinesis and mitosis overlap.

When the cell is not dividing, it is said to be in interphase.

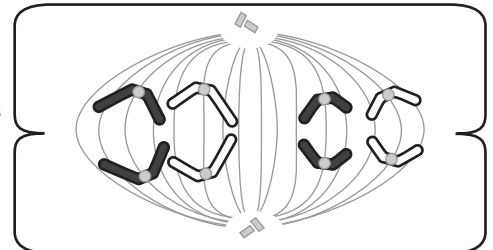
## Metaphase

Nuclear membrane gone.  
Chromosomes align at center,  
and attach to spindle fibers



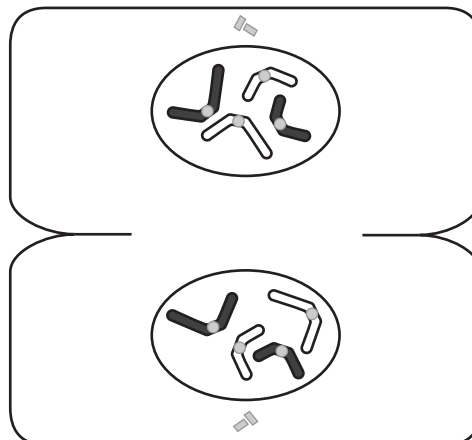
## Anaphase

Separation occurs, chromosomes  
pulled to opposite poles of cell.  
Cytokinesis begins



## Telophase

Nuclear envelope reforms.  
Cytokinesis continues



## Interphase

DNA unravels, forms chromatin.  
Daughter cells have formed

