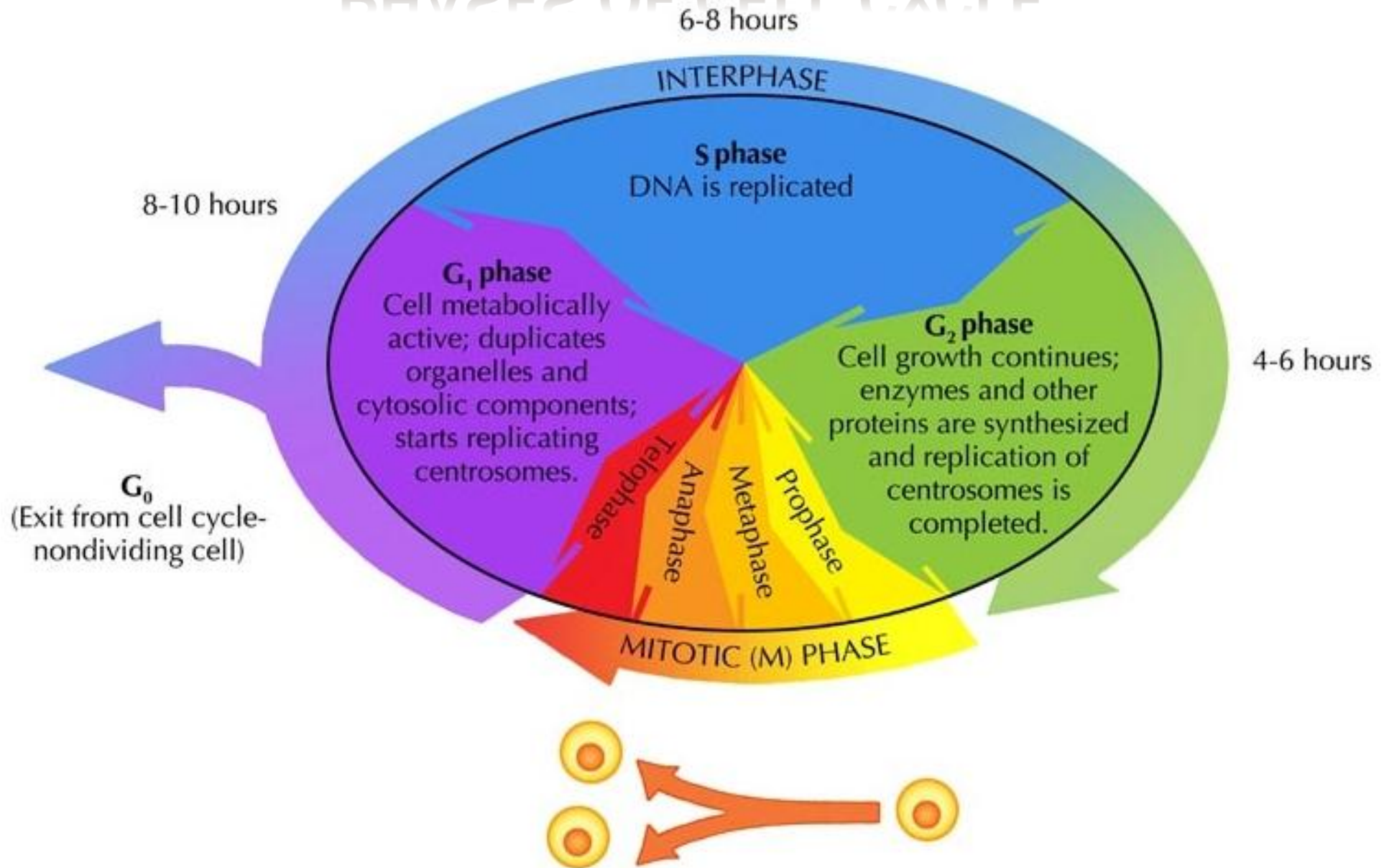


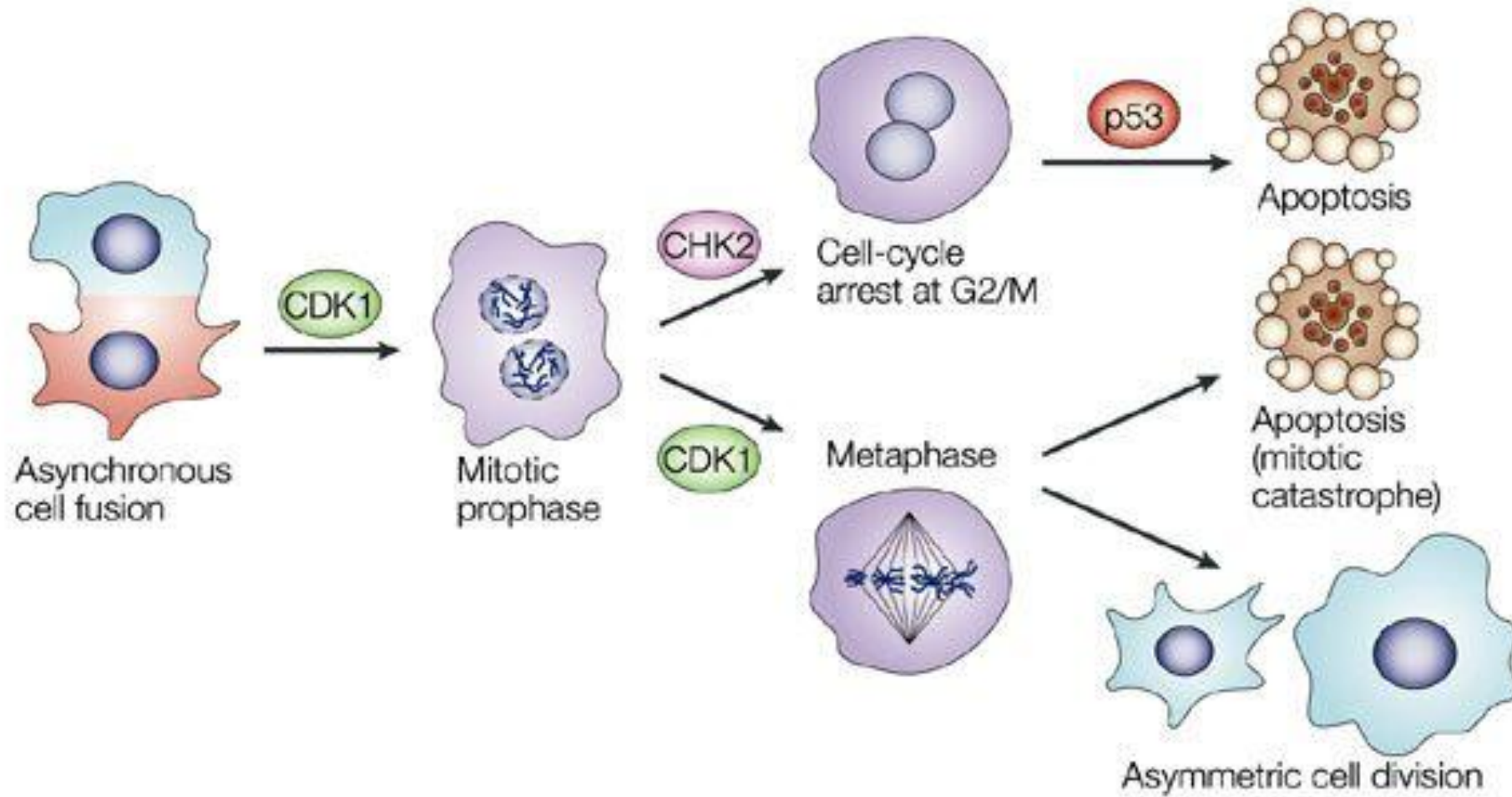
Cell Cycle

DEPARTMENT OF HUMAN ANATOMY – MUCOM 2020

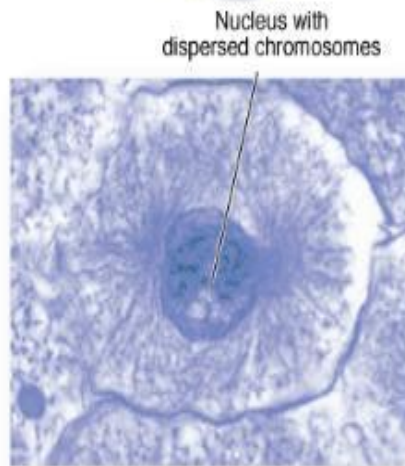
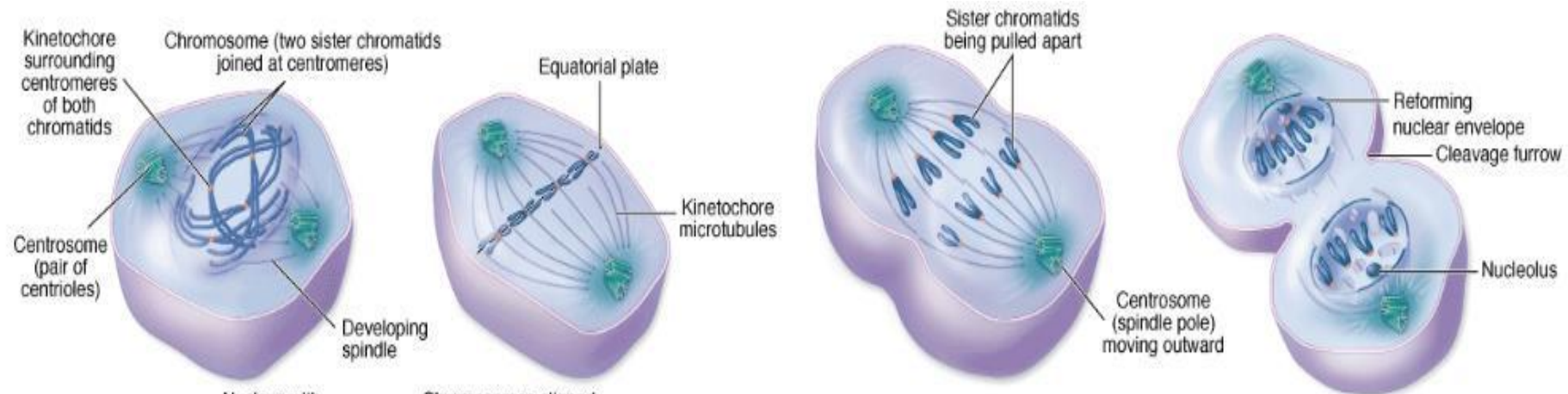
PHASES OF CELL CYCLE



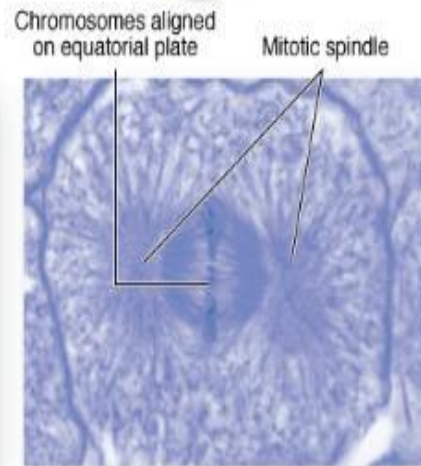
MITOTIC CATASTROPHE



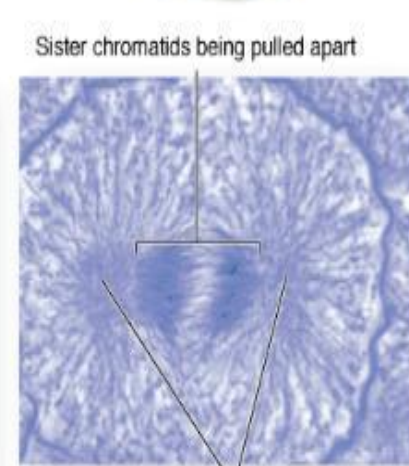
MITOSIS



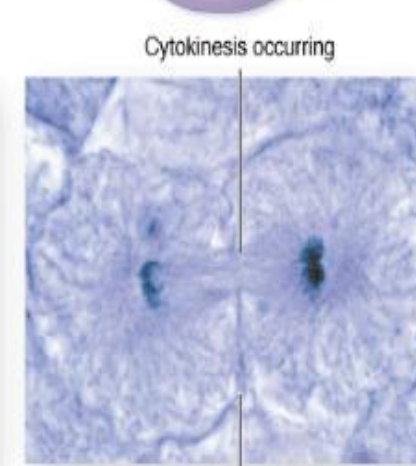
a Prophase



b Metaphase



c Anaphase

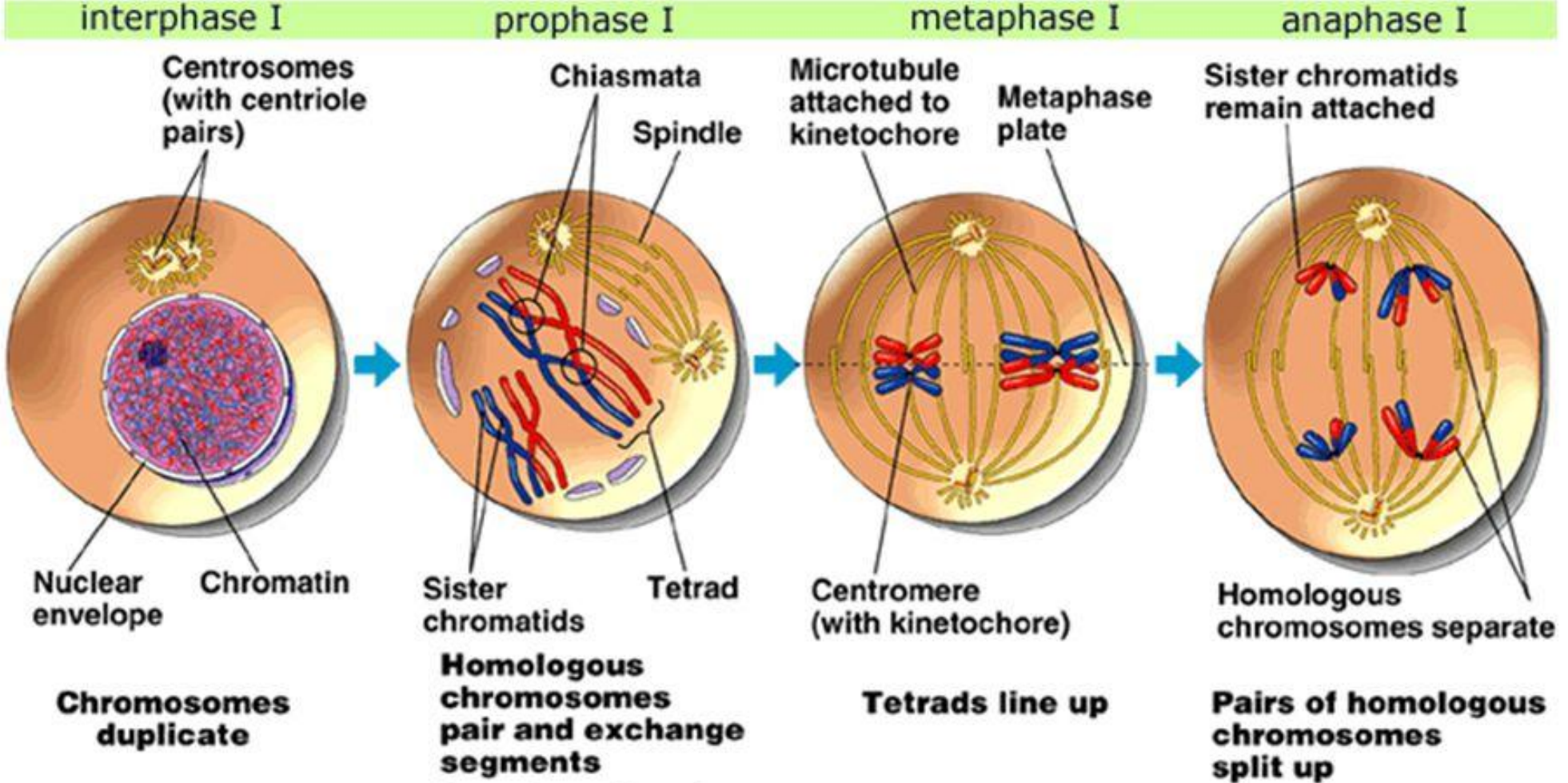


d Telophase

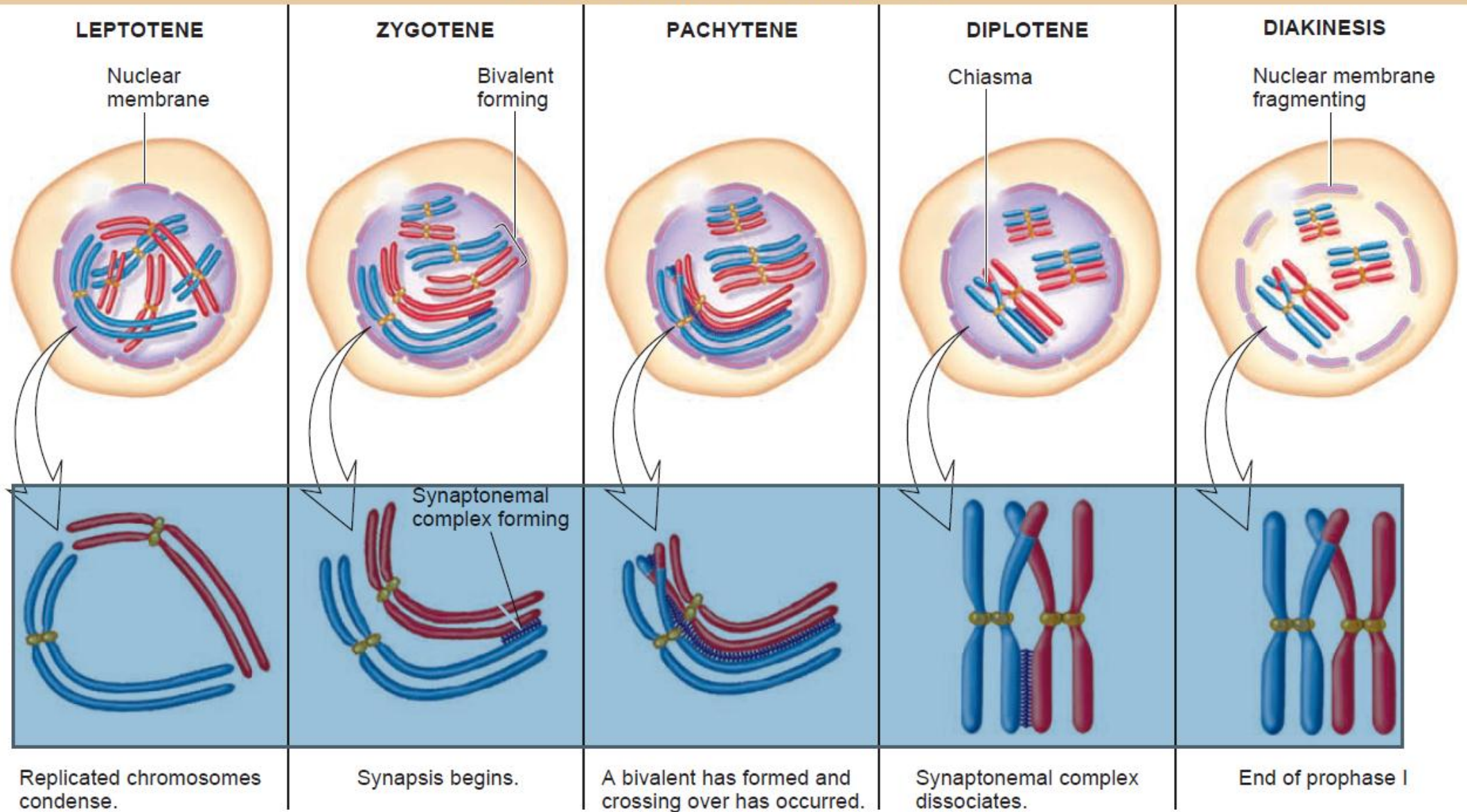
the stages of mitosis

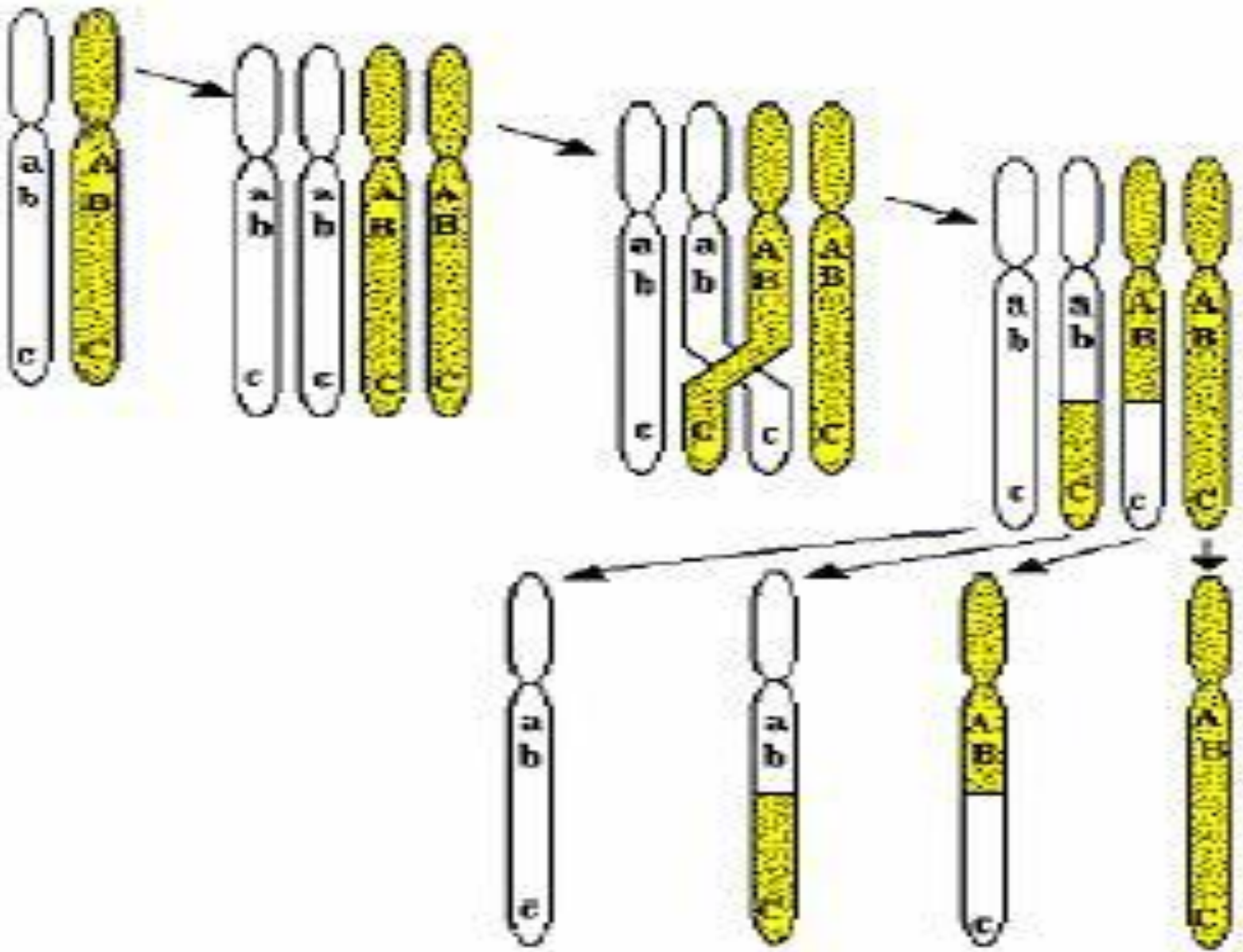
Meiosis 1

Meiosis I



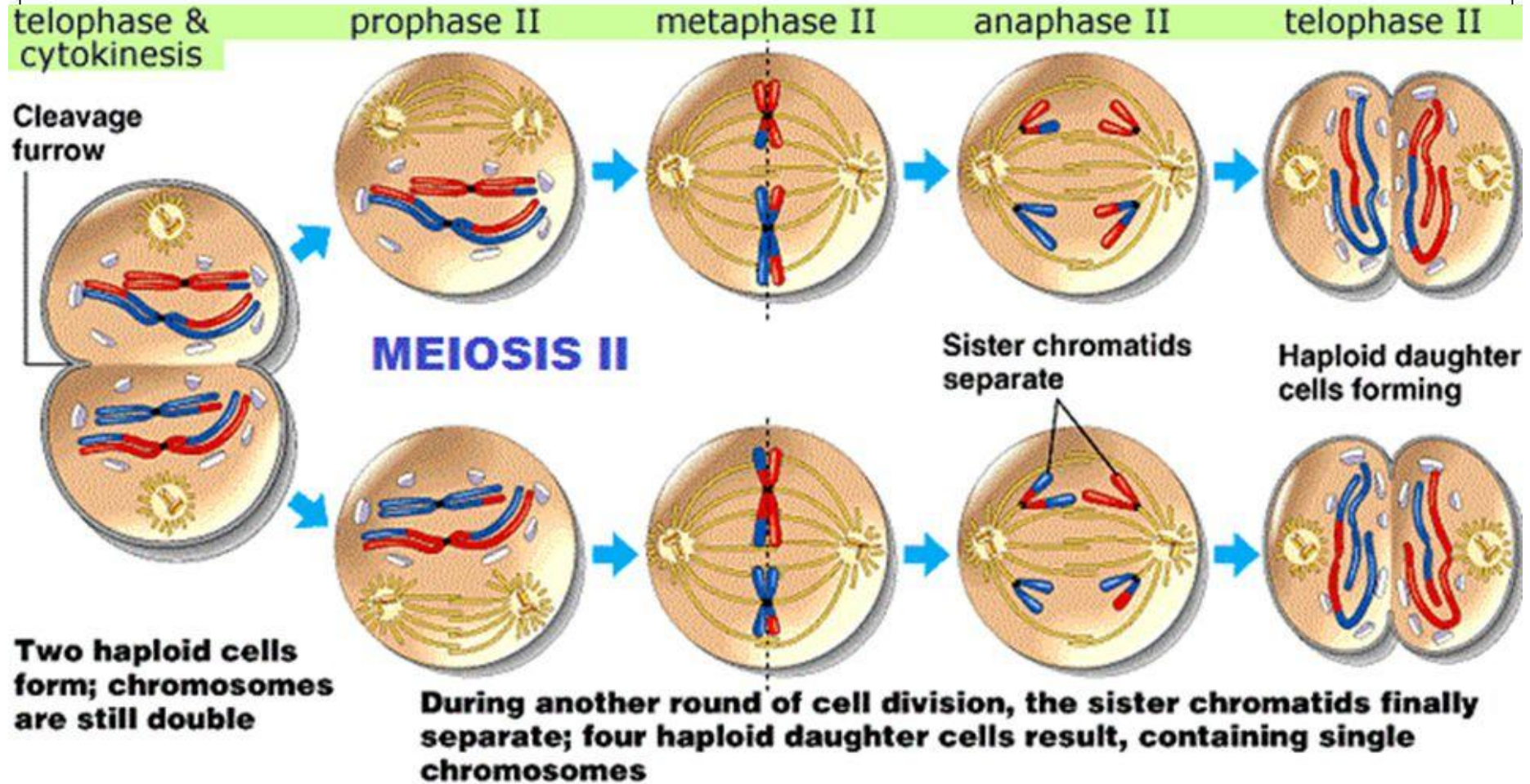
STAGES OF PROPHASE OF MEIOSIS I





Crossing-over and recombination during meiosis

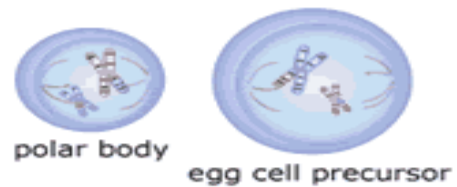
MEIOSIS II



Meiosis II in Females

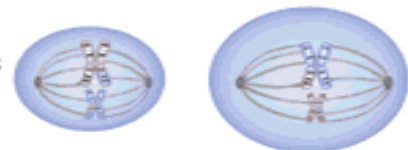
Prophase II

chromosomes begin to condense
nuclear membrane dissolves
spindle fibers form



Metaphase II

spindle fibers attach to chromosomes
chromosomes line up in center of cell



Anaphase II

centromeres divide and sister chromatids move to opposite ends of cell as spindle fibers shorten



Telophase II

chromosomes reach opposite ends
nuclear membrane forms



Cytokinesis

cell division occurs



polar body

polar body

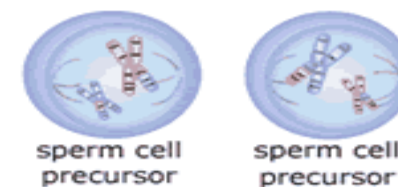
polar body

mature egg cell

Meiosis II in Males

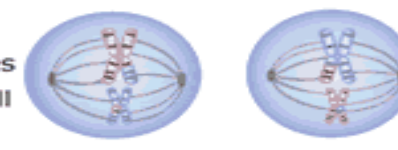
Prophase II

chromosomes begin to condense
nuclear membrane dissolves
spindle fibers form



Metaphase II

spindle fibers attach to chromosomes
chromosomes line up in center of cell



Anaphase II

centromeres divide and sister chromatids move to opposite ends of cell as spindle fibers shorten



Telophase II

chromosomes reach opposite ends
nuclear membrane forms



Cytokinesis

cell division occurs

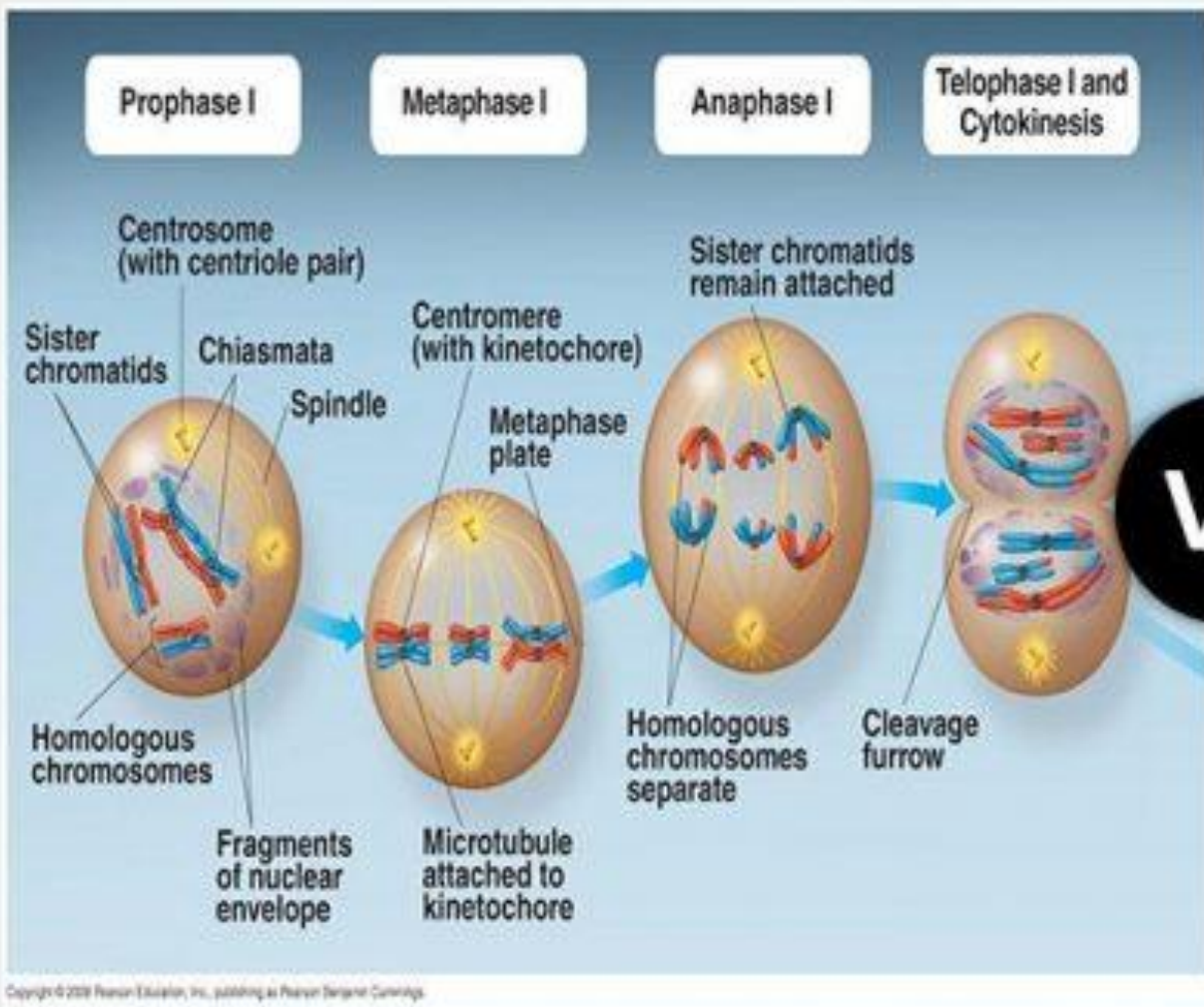


sperm cell

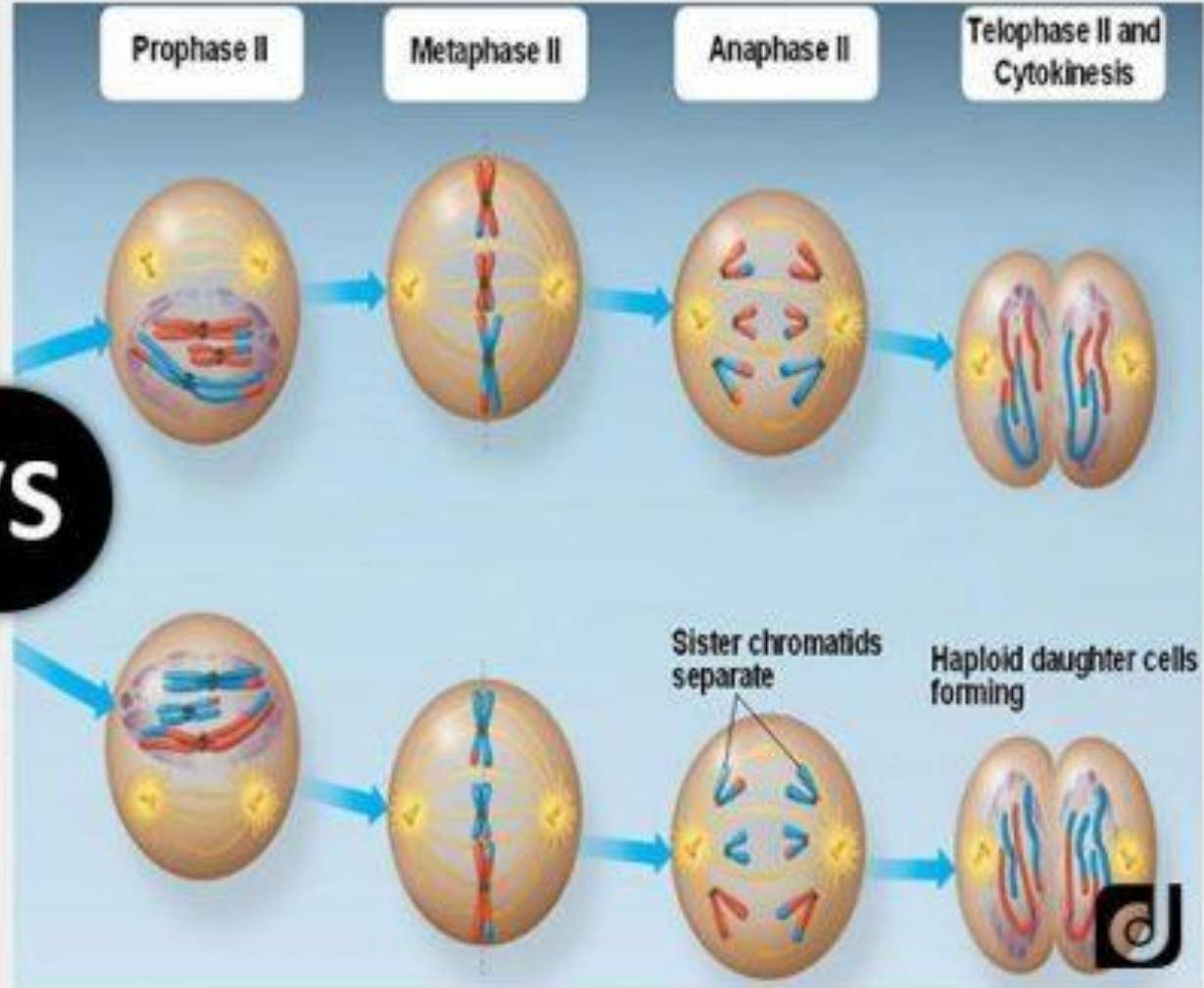
sperm cell

sperm cell

sperm cell



VS



Meiosis I vs. Meiosis II

Interphase