

Cell Division	Name	Components	Short Description of events
I	Interphase	Chromosomes in the nucleus	Chromosomes replicate (DNA replication)
P	Prophase	Chromosomes Nucleus Centrioles, Spindle fibers, Centromeres	Chromosomes become visible (condense) Centrioles separate to opposite poles Spindles form between centrioles Chromosomes attach at centromeres
	Metaphase	Equator of cell	Chromosomes line up at the centre of the cell Centromere attached to the 2 poles of the spindles
A	Anaphase	Splitting of chromosome	Centromere splits Chromatids pull apart
T	Telophase	Chromosomes Nucleus	Chromosomes unwind Nuclear envelopes reforms Spindle breaks apart
	Cytokinesis	Cell splits	Division of the cytoplasm

Label the following 8 steps with I,pmat-c: (note some phases will be depicted through more than one step in the diagram)

