

Phases of Mitosis

Phases	Sketch	Description
Prophase		<p><u>4 things</u></p> <ol style="list-style-type: none"> 1) Chromatin supercoils into chromosomes 2) Nucleolus breaks down 3) Mitotic Spindle (Centrosome + Spindle fibers) forms 4) Nuclear Membrane breaks down
Metaphase		<p>Spindle fibers Microtubules attach to centromeres of replicated chromosomes & pull toward the Metaphase plate (middle of cell)</p>
Anaphase		<p>Centromeres divide allowing sister chromatids to separate into unreplicated chromosomes.</p> <p>Kinetochores microtubules pull these chromosomes toward the cell pole. Cell membrane elongates.</p>
Telophase		<p><u>4 things</u></p> <ol style="list-style-type: none"> 1) Chromosomes uncoil into chromatin 2) Nuclear membrane reforms around them 3) Nucleolus forms 4) Mitotic spindle breaks down.