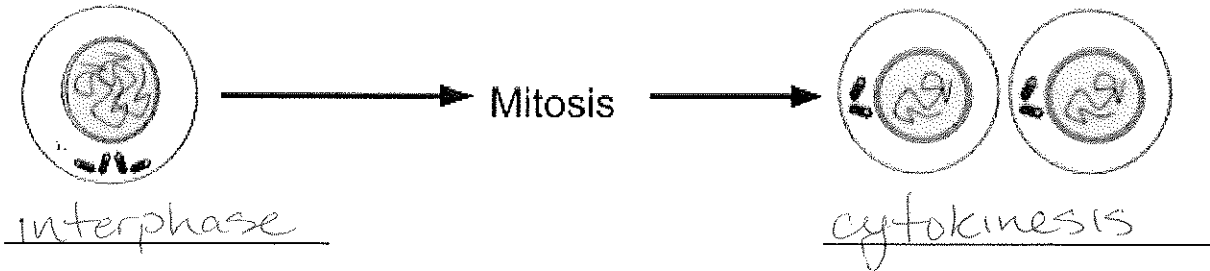


Mitosis Notes

Mitosis is division of the nucleus to help form new identical body cells

What stages of the cell cycle come before and after mitosis? Label the diagram below with the correct terms:

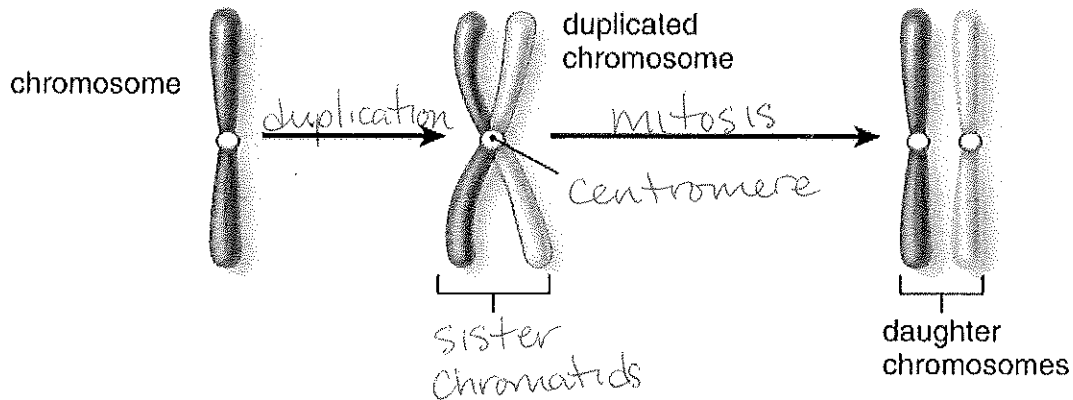


Vocabulary: Use the gallery walk to write the definitions for these terms and label the diagram

Chromosome - Condensed DNA forms during prophase

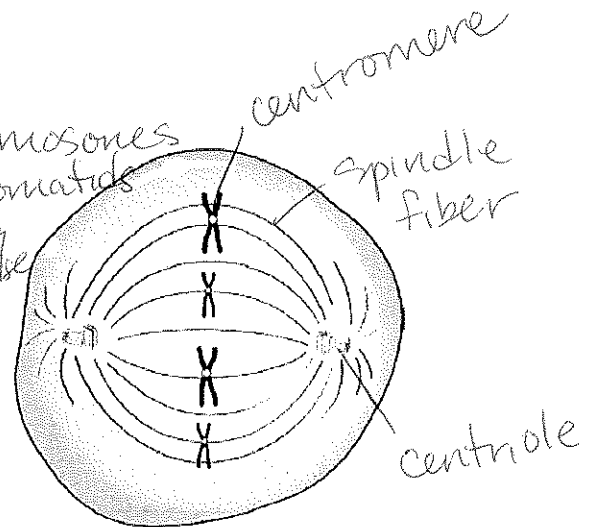
Chromatid - half of replicated chromosome; after DNA is copied, cell has 2 identical sister chromatids

Centrosome - part of chromosome that holds together 2 sister chromatids

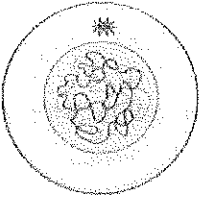
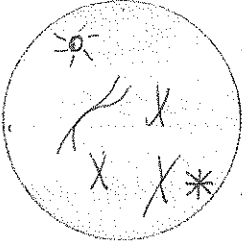
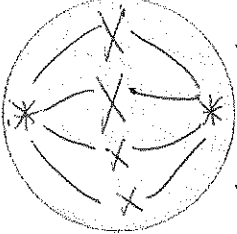
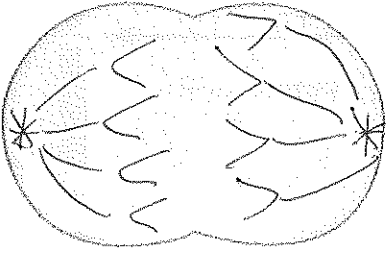
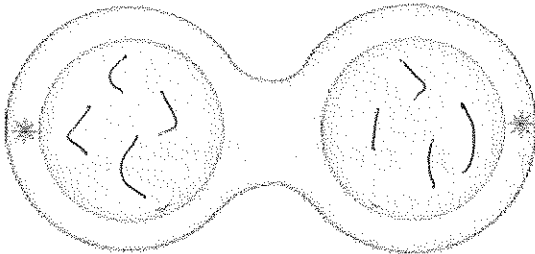
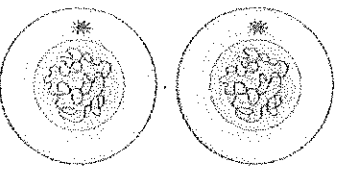


Spindle Fiber - attach to centromere of chromosomes & assist in separating sister chromatids

Centriole - organelle that forms spindle during cell division anaphase



Complete the diagrams by drawing the chromosomes and spindle fibers during each phase of mitosis.

Phase	Sketch –	Description
Interphase		<p>cell grows, replicates DNA & organelles, preps for mitosis</p>
Prophase		<p>chromosomes condense & nuclear membrane disappears</p>
Metaphase		<p>chromosomes line up middle of cell spindle fibers connect to centromeres</p>
Anaphase		<p>chromatids pulled apart</p>
Telophase		<p>nuclear membrane reforms around daughter chromosomes</p>
Cytokinesis		<p>cell divides into 2 identical diploid daughter cells</p>