The Cell Cycle: Mitosis

Mitosis is a form of cell reproduction in which a cell makes an identical copy of itself.

Mitosis is used for growth and repair all over an organism's body.

Learn more about the phases of mitosis below!

 The cell grows and makes an identical copy of its DNA. Interphase • Chromatin (unwound DNA) winds up tightly into chromosomes. Each chromosome has two identical copies of DNA, called sister chromatids. • The nuclear envelope (membrane around the nucleus) breaks down. **Prophase** • Spindles form to help the chromosomes move. • The chromosomes line up in the center of the cell. Metaphase • The spindles pull the two sister chromatids of each chromosome apart, resulting in two sets of identical chromosomes. **Anaphase** The spindle dissolves and nuclear envelopes form around the chromosomes of each cell. **Telophase** The cytoplasm divides and the two cells are completely separated. Cytokinesis