Mitosis Notes

Cell division occurs in a series of stages, or phases.

1st: INTERPHASE
- Chromosomes are copied (# doubles)
- Chromosomes appear as threadlike coils (chromatin) at the start, but each chromosome and its copy (sister chromosome) change to sister chromatids at end of this phase

2nd: PROPHASE
- Mitosis begins (cell begins to divide)
- Centrioles (or poles) appear and begin to move to opposite ends of cell
- Spindle fibers form between the poles

3rd: METAPHASE
- Chromatids (or pairs of chromosomes) attach to the spindle fibers

4th: ANAPHASE
- Chromatids (or pairs of chromosomes) separate and begin to move to opposite ends of the cell

5th: TELOPHASE
- Two new nuclei form
- Chromosomes appear as chromatin (threads rather than rods)
- Mitosis ends

6th: CYTOKINESIS
- Cell membrane moves inward to create two daughter cells - each with its own nucleus with identical chromosomes
Mitosis Notes

Name ______________________

Mitosis occurs in a series of stages, or ____________.

1st: __________

- Chromosomes are _________ (# doubles)
- Chromosomes appear as threadlike coils (___________) at the start, but each chromosome and its copy (__________ chromosome) change to sister chromatids at end of this phase

2nd: __________

- ____________ begins (cell begins to divide)
- ____________ (or poles) appear and begin to move to opposite ends of cell
- __________ _________ form between the poles

3rd: __________

- ____________ (or pairs of chromosomes) attach to the spindle fibers

4th: __________

- Chromatids (or pairs of chromosomes) ____________ and begin to move to ____________ ends of the cell

5th: __________

- Two new ____________ form
- Chromosomes appear as chromatin (__________ rather than _________)
- ____________ ends

6th: __________

- Cell membrane moves inward to create two ____________ cells - each with its own ____________ with identical __________________

4th: __________

Sister chromatids

3rd: __________

Sister chromatids

1st: __________

2nd: __________

6th: __________

Sister chromatids split

Sister chromatids

Mitosis Notes Name ______________________