

PART 1 Mitosis Tutorial <https://www.cellsalive.com/mitosis.htm>

DIRECTIONS:

- Click on "Start the Animation." Use the right side links to click through the phases of the cell cycle.

1. Which stage does the following occur:

| DESCRIPTION | STAGE OF MITOSIS |
|---|------------------|
| a) Chromatin condenses into chromosomes. | prophase |
| b) Chromosomes align in center of the cell. | metaphase |
| c) Longest part of the cell cycle. | interphase |
| d) Nuclear envelope breaks down. | prometaphase |
| e) Cell is cleaved into two new daughter cells. | cytokinesis |
| f) Daughter chromosomes arrive at the poles. | telophase |
| g) Chromatids are pulled apart. | anaphase |

2. Watch the video carefully. The colored chromosomes represent chromatids. There are two of each color because one is an exact duplicate of the other.

a) How many chromosomes are visible at the beginning of mitosis?

4

b) How many are in each daughter cell at the end of mitosis?

4

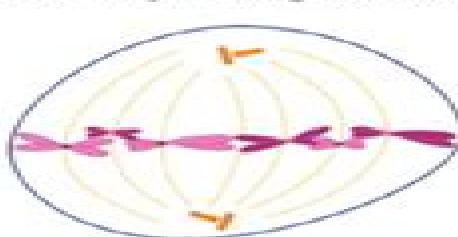
c) The little green T shaped things on the cell are:

centriole

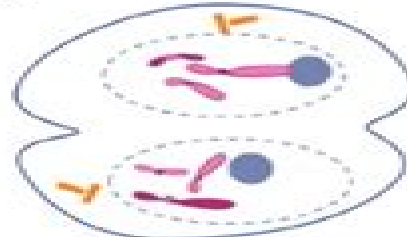
d) What happens to the centrioles during mitosis?

They divide

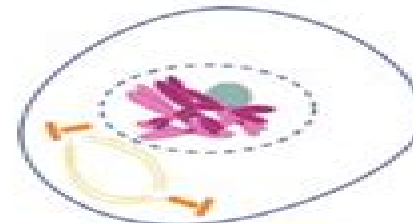
3. Identify the stages of these cells:



metaphase



cytokinesis



interphase

PART 2 Onion Root Tip http://www.biology.arizona.edu/cell_bio/activities

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C Cleary



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Promoting Factor Structure Human fertilization Mitosis Fertilization age Mitosis Mitosis Promoting Factor Inhibition of myosin Mitosis Promoting Factor Disassembly by anaphase promoting complex Mitosis Interphase Cell cycle progression Mitosis M phase mitotic phase Homologous chromosomes In mitosis Mitosis Metaphase Spindle checkpoint Mitosis anchoring of chromosomes to the spindle and chromosome segregation Spindle assembly checkpoint Mitosis anchoring of chromosomes to the spindle and chromosome segregation Developmental age Mitosis Meiosis Theory that meiosis evolved from mitosis Mitosis Cytokinesis Mitosis Prometaphase Meiosis Sharing of components during the evolution of meiosis and mitosis Meiosis Meiosis vs mitosis Procreation Mitosis and meiosis Mitosis Prophase G2 phase End of G2 Entry into Mitosis Nondisjunction Mitosis Reproductive Mitosis and meiosis Mitosis Promoting Factor Activation of MPF Homologous recombination Timing within the mitosis/mitotic cell cycle Mitosis Promoting Factor Discovery M phase Mitosis M phase mitotic phase Mitosis Consequences of errors Mitotic Endomitosis Spindle poison Mitosis Mitosis Promoting Factor Overview of functions of MPF and much more

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