

**Mitosis Notes:**

You began as a \_\_\_\_\_ cell but as you grow your cells \_\_\_\_\_.

Two reasons for your body to make new cells are to \_\_\_\_\_ & \_\_\_\_\_.

The process in which 2 identical cells are made from one original cell is \_\_\_\_\_.

Each new cell grows until it is ready to divide by mitosis.

Name 2 places that you would find Body Cells. \_\_\_\_\_ & \_\_\_\_\_.

Which human body cells go through mitosis the slowest? \_\_\_\_\_

Which human body cells go through mitosis the fastest? \_\_\_\_\_

Which will you recover from the fastest a cut on your skin or injury to your brain?  
\_\_\_\_\_

Mitosis is going on all the time in your body your entire life. The rate of mitosis varies depending on the type of cell.

When you photocopy a picture you start with one picture and end with 2 identical pictures. This is similar to Mitosis.

Chromosomes carry the information for all the activities of a cell. Where are the chromosomes located in a cell?  
\_\_\_\_\_

**INTERPHASE – THIS TERM IS NOT MENTIONED IN YOUR BOOK BY NAME.**

- **CELLS SPEND MOST OF THEIR LIFE IN INTERPHASE DOING THEIR JOBS AND GROWING.**
- **AT THE END OF INTERPHASE THE CHROMOSOMES DOUBLE**

What is the name for the two strands of chromosomes after the chromosomes have doubled? \_\_\_\_\_

Why do the chromosomes need to double before they split into two new cells?  
\_\_\_\_\_  
\_\_\_\_\_

**Steps of Mitosis:**

**Step One: (Prophase – Not named by your book)**

**Major Events: NUCLEAR MEMBRANE DISAPPEARS**

- 1.
- 2.
- 3.
- 4.

**Step Two: (Metaphase – Not named by your book)**

**Major Events: SISTER CHROMATIDS LINE UP IN THE MIDDLE**

- 1.
- 2.
- 3.

**Step Three: (Anaphase – Not named by your book)**

**Major Events: CHROMATIDS MOVE AWAY FROM EACH OTHER**

- 1.
- 2.

**Step Four: (Telophase – Not named by your book)**

**Major Events: TWO NEW CELLS FORM**

- 1.
- 2.
- 3.
- 4.

**The two new cells that result from Mitosis are small than the original but will quickly begin to grow.**

**Name two benefits of mitosis:**

- 1.
- 2.