

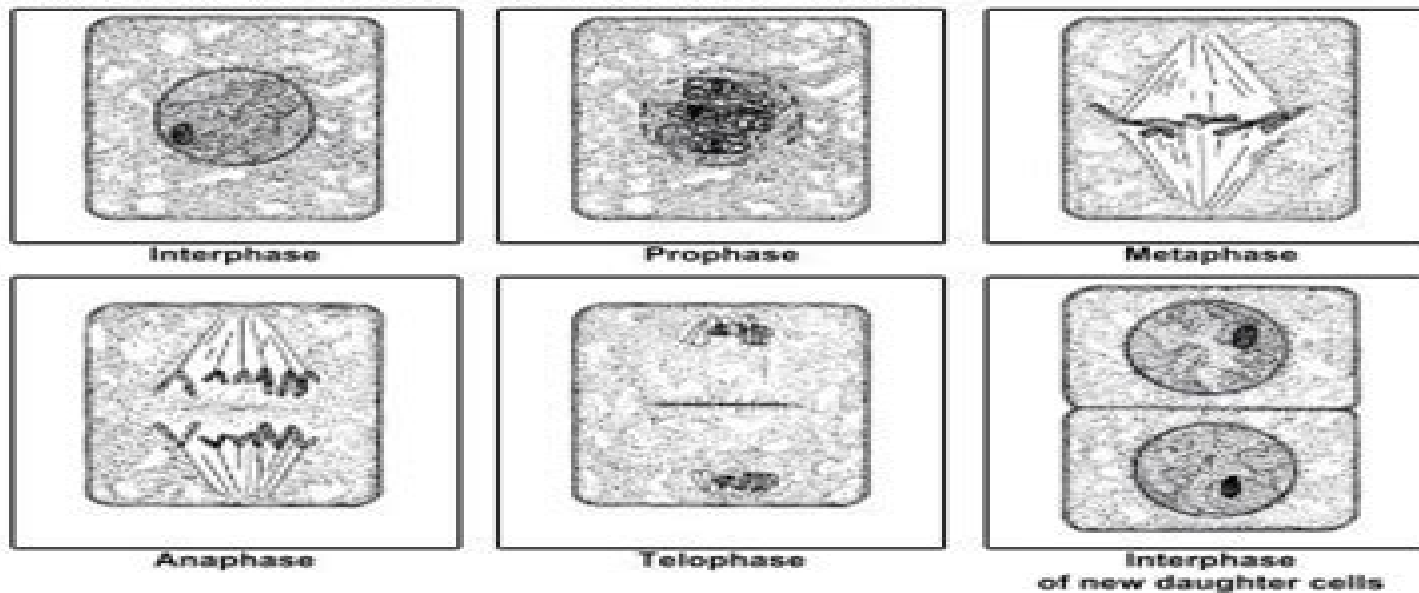
LAB _____. MITOSIS AND CANCER

One of the basic tenets of biology is that all new cells come from living cells. New cells are formed by the process of cell division which includes both the division of the cell's nucleus (**mitosis**) and the division of the cell's cytoplasm (**cytokinesis**). Mitotic nuclear division typically results in new **somatic** (body) cells. All of the following processes are accomplished through mitotic cell divisions:

- Formation of an adult organism from a fertilized egg (zygote)
- Asexual reproduction (as in the reproduction of an *Amoeba* or *Paramecium*)
- Regeneration (as in the re-growth of a starfish arm)
- Repair or maintenance of body parts (as in the healing of a wound or the replacement of epithelial tissue)
- Growth (as in growth in height of a tree or growth in size of a maturing animal)

Although, once it has started, mitosis is a continuous process, scientists have divided it into distinct stages for convenience and ease of study and understanding of the cellular events. These are illustrated below (for plant cells) in Figure 1.

FIGURE 1. DIAGRAMATIC GUIDE TO THE STAGES OF MITOSIS



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