

Fig. 9.5. The cell cycle.

The outer circle shows the longest stage of the cell cycle, **Interphase**. Color Interphase DARK BLUE.

Interphase is broken down into 3 parts - **G1**, **S**, and **G2 phase**. Color all three of these a LIGHT BLUE color.

The cell's nucleus divides during **Mitosis** or **M Phase**. Color the outer circle that says "Mitosis or M Phase" DARK GREEN.

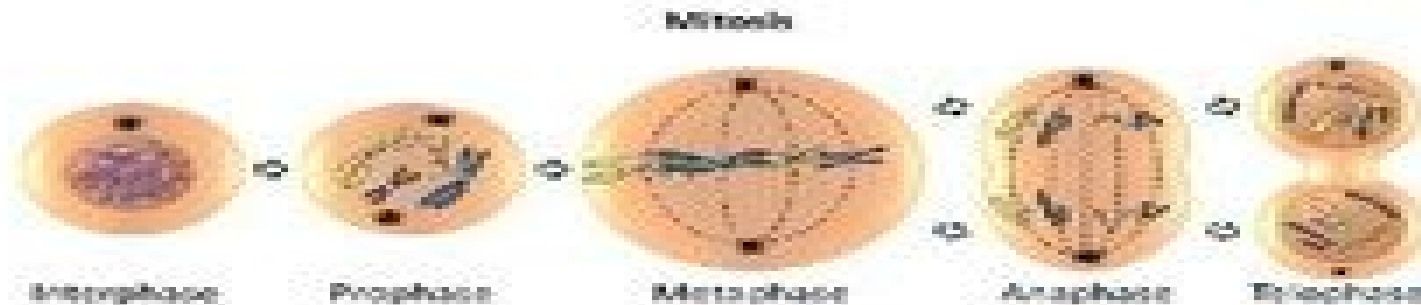
Mitosis is broken down into 4 parts - **Prophase**, **Metaphase**, **Anaphase**, and **Telophase**. Color all four of these a LIGHT GREEN color.

Study the cell cycle on the previous page and respond to the question below.

7. A typical eukaryotic cell spends the majority of its life in **interphase**. The three parts of interphase are listed below. What occurs in each part of interphase?

- G₁ _____
 S _____
 G₂ _____

When a cell is ready to divide, it enters **Mitosis**, or **M Phase**. Observe the picture below which shows the stages of Mitosis in more detail. In interphase, the DNA is in the form of **chromatin**. Once the cell enters **Prophase**, the DNA is condensed into the form of **chromosomes**.



8. The squiggly lines in Interphase represent loosely packed DNA called **chromatin** in the nucleus. Describe how the DNA in **Prophase** looks different than Interphase.

9. In **Prophase**, the nucleus has completely broken down and the DNA is visible in the form of duplicated chromosomes. How many duplicated chromosomes are visible in Prophase? _____

Pogil Activities Mitosis

DP Hallahan

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Pogil Activities Mitosis:

Mitosis: Chromosome Replication and Division , Mitosis Chromosome Replication and Division is lesson 1 8 of Biology Lessons for Prospective and Practicing Teachers This lesson is intended for use with elementary or middle school classes and consists of various science activities that focus on the process of mitosis The lesson includes the procedures for the activities a knowledge mapping exercise and a glossary of relevant terms There is also a section on alternative ideas which are explanations of common misconceptions about the topic San Diego State University provides this lesson online *Molecular Regulation of Nuclear Events in Mitosis and Meiosis* R. A. Schlegel,1962

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