

Study Guide:

The Cell Cycle & Reproduction

The Cell Cycle

1. Three reasons that cells divide are:

- Reproduction (only asexual reproduction - binary fission)
- Growth
- Repair or replace damaged cells




2. **Prokaryotes** are organisms that do not have a **nucleus**. The DNA in prokaryotes resides in the cytoplasm of the cell.

- Are unicellular organisms like **bacteria**.

3. **Eukaryotes** are organisms that do have a nucleus. The DNA resides in the nucleus of the cell.

- Are multicellular organisms like **humans/animals/plants**.

4. Fill in the table below with information on the **Cell Cycle**.

Step in the Cell Cycle	Picture	Explanation
Interphase		<p>Cell spends most of its life in this phase. Cell is performing normal cell functions. Organelles present.</p> <p>DNA is copied in the nucleus.</p> <p>The DNA is known as chromatin, long strands of disorganized protein.</p>
Prophase		<p>Mitosis, the process of cell division begins.</p> <p>Chromosomes, a condensed form of DNA form.</p> <p>The nucleus starts to disintegrate.</p>
Metaphase		<p>The chromosomes line up in the middle of the cell.</p> <p>Spindle fibers start to form.</p>

Cell Growth And Reproduction Study Guide

Marshal Shlafer, Richard A. Lehne



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