

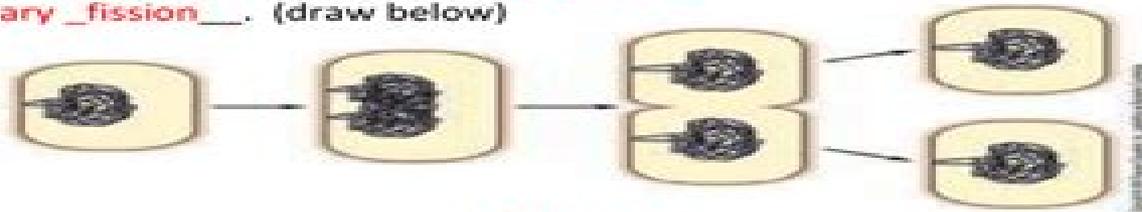
# Study Guide for Cell Cycle

## Cell Division Notes:

- There are 3 main reasons why cells need to divide:
  1. **To replace worn out cells**
  2. **To replace damaged cells**
  3. **Growth and Development**
- Before a cell can divide, it must do two things:
  1. **Copy DNA**
  2. **Copy Organelles**

So that each new cell has a complete set of DNA and organelles

- Organisms with prokaryotic cells (**\_bacteria\_**) do a very simple process of dividing called **\_binary\_fission\_**. (draw below)



- However, eukaryotic organisms (**\_like us!\_**) go through a much more complicated process called the **\_cell\_cycle\_**, which is the dividing of non-sex cells. Sex cells divide using a different process called **\_meiosis\_**.
- We can divide this process into **\_3\_** main steps:
  - **\_interphase\_** - cell grow and DNA is copied (90% of time spent here)
  - **\_mitosis\_** - (4 steps) steps in which the nucleus's DNA actually divides
  - **\_cytokinesis\_** - cytoplasm splits and cell divides making two daughter cells
- In between each phase, there are **\_checkpoints\_** to make sure that the cell has done everything it needs to do correctly.
- If a mistake has happened, the cell usually **\_fixes\_** the mistake, but if it does not catch the mistake, the cell could **\_malfunction\_** (not work correctly).
- If cells do not divide correctly, **\_mutations\_** or **\_cancer\_** can occur.

# Cell Division Study Guide Key

**Ensheng Dong**



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