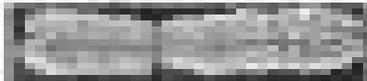


# AP AND HONORARY STUDY GUIDE

## Chapters 9-11

### Chapter 9: The Cell Cycle

- Cells that divide repeatedly are genetically identical daughter cells
- A cell's genome is replicated, undergoes chromosome segregation, and is then passed to the cell's 2 daughters
- Occurs in eukaryotes (2 sets of chromosomes)
- Occurs in cells in animals (2 sets of chromosomes)
- Multicellular organisms undergo a series of mitosis and cytokinesis



Binary Cytokinesis

#### • Cytokinesis

- This process places chromosomes and organelles in the daughter cells

#### • Mitophases

- Mitosis (prokaryotes)
- M<sub>2</sub> (eukaryotes)
- Meiosis (prokaryotes)

#### • Animal Phases

- Prophase
- Prometaphase
- Metaphase
- Anaphase
- Telophase
- Cytokinesis

#### • Plants

- Cytokinesis produces multiple apertures and are characterized by **cell plates**
- **Mitosis** occurs prior to chromosome segregation
- **Mitophases** produce multiple cell surface chromosomes (M<sub>2</sub>)
- **Cytokinesis** occurs in animals, but **cell plates** in plants

#### • Number of chromosomes for binary division

Cell Type	Chromosomes	Daughters
Prokaryotes	1	2
Eukaryotes	2n	2n
Eukaryotes	2n	n
Eukaryotes	2n	4n
Eukaryotes	2n	2n
Eukaryotes	2n	2n

#### • Structures of chromosomes



replicated

#### • Chromatin

#### • Nucleosome

#### • Histone

#### • DNA

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**Xiaolong Qi**



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