

Chapter 10 Study Guide – OpenStax Biology 2e

Chapter Review Questions:

1. Write the following terms in order from the smallest to the largest structure (in terms of size and complexity): DNA wrapped around histones, DNA molecule/double helix, a single chromosome, duplicated chromosome.

DNA molecule

DNA wrapped around histones

Single chromosome

Duplicated chromosome

2. Our human body cells all have 2 copies of every chromosome. We got one copy from each of our parents. This is called diploid/haploid (select one).

diploid

3. An egg or a sperm cell is called haploid. In what way do the chromosomes of an egg or a sperm cell differ from the chromosomes of our body cells?

Chromosomes in body cells are organized into two

4. In your own words, summarize what is meant by the term “the Cell cycle”. You don’t need all the details here – you will write those in the next question.

A cell cycle is basically the life cycle of a cell and what it goes through within each stage of growth and development.

5. Now, draw or fully describe the **detailed steps of the cell cycle**. Your answer should include all of the listed terms AND, for each term, you should indicate what is occurring during that part of the cell cycle.

- **Terms to include:** Interphase, G₁, G₂, G₀, S, Mitotic phase, Mitosis, Cytokinesis.

Interphase: the first phase the cell goes through in the cell cycle, consists of three stages, G₁, S and G₂. This is where the cell spends most of its life in, about 90% of its life the cell spends it here in the interphase.

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