

A B

3/27/17 3/28/17

c11-21: The Cell Cycle

cell cycle - growth, development, and division of a cell

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SC.6.L.14.3

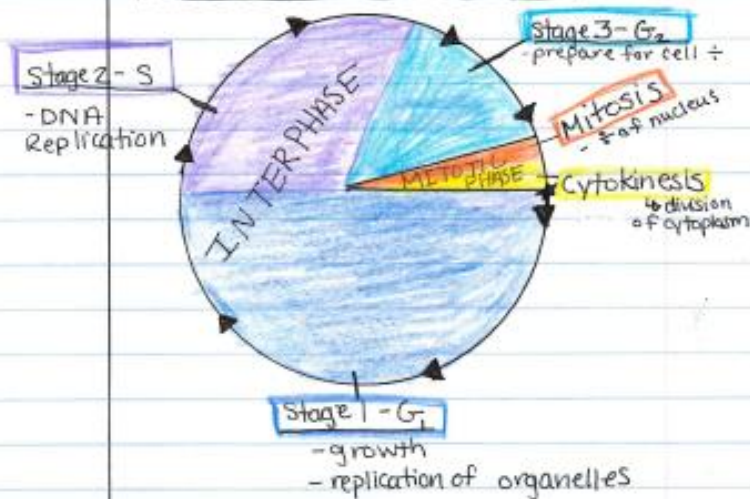
VOCAB

- cell cycle
- mitosis

Why a cell divides:

- 1) produce new cells (Reproduction)
- 2) Replace old/damaged cells (repair)
- 3) Growth of an organism

Phases of the Cell cycle



Mitosis

- 1) Prophase - copies DNA
- 2) Metaphase - Chromosomes in middle (line)
- 3) Anaphase - Chromatids pulled apart
- 4) Telophase - 2 identical nuclei

A B
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C11-L2: Levels of Organization

NOTES

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SC.6.L.14.1

VOCAB

- cell differentiation
- stem cell
- tissue
- organ
- organ system

cell differentiation - process when cells become different types of cells.

stem cell - unspecialized cell
- can develop into different types of cells

tissues - group of cells that work together

organs - group of tissues that work together

organ system - group of organs that work together

Reflection: Provide an example of the correct sequence of the levels of organization.

Hint: use these terms: tissue, cell, organ, organism, organ system