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Topic: Cell Cycle Intro Worksheet

Summary: Introduce students to the cell cycle, mitosis, its phases and chromosome formation.

Goals & Objectives: Students will be able to identify and define the different aspects of the cell cycle.

Time Length: 20 minutes

NGSS Standards: *HS-LS1-4*. Use a model to illustrate the role of cellular division (mitosis) and differentiation in producing and maintaining complex organisms.

Materials:

Class notes or textbook or online textbook

- <https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/2.32/primary/lesson/cell-cycle-bio/>

Procedures:

Students can use their notes, drawings, or textbook as an aide.

Accommodations: Students with an IEP can do questions 1, 8 and 9.

Editable DOCX File and Answer Key:

Available at www.ngsslifescience.com

Cell Cycle Intro WS

(Use scientific terms only)

Cell Cycle Questions:

1. What are the four steps of the cell cycle in order?

1 _____ 2 _____ 3 _____ 4 _____

2. Which phase is normal cell growth? _____
3. Which cell cycle phase synthesizes DNA? _____
4. What structure is formed when DNA is super coiled and the nucleus has disappeared? _____
5. Which phase is when the cell doubles its organelles to prepare for cell division?

6. What phase is when the cell is dividing? _____
7. When the cell is not going to divide, it is stuck in which phase? _____
8. Draw in a model of the cell cycle below. Label each phase.

Mitosis Questions:

9. What are the four phases of mitosis in order?

1 _____ 2 _____ 3 _____ 4 _____

10. Which phase in mitosis includes chromosomes lined up down the equator of the cell? _____