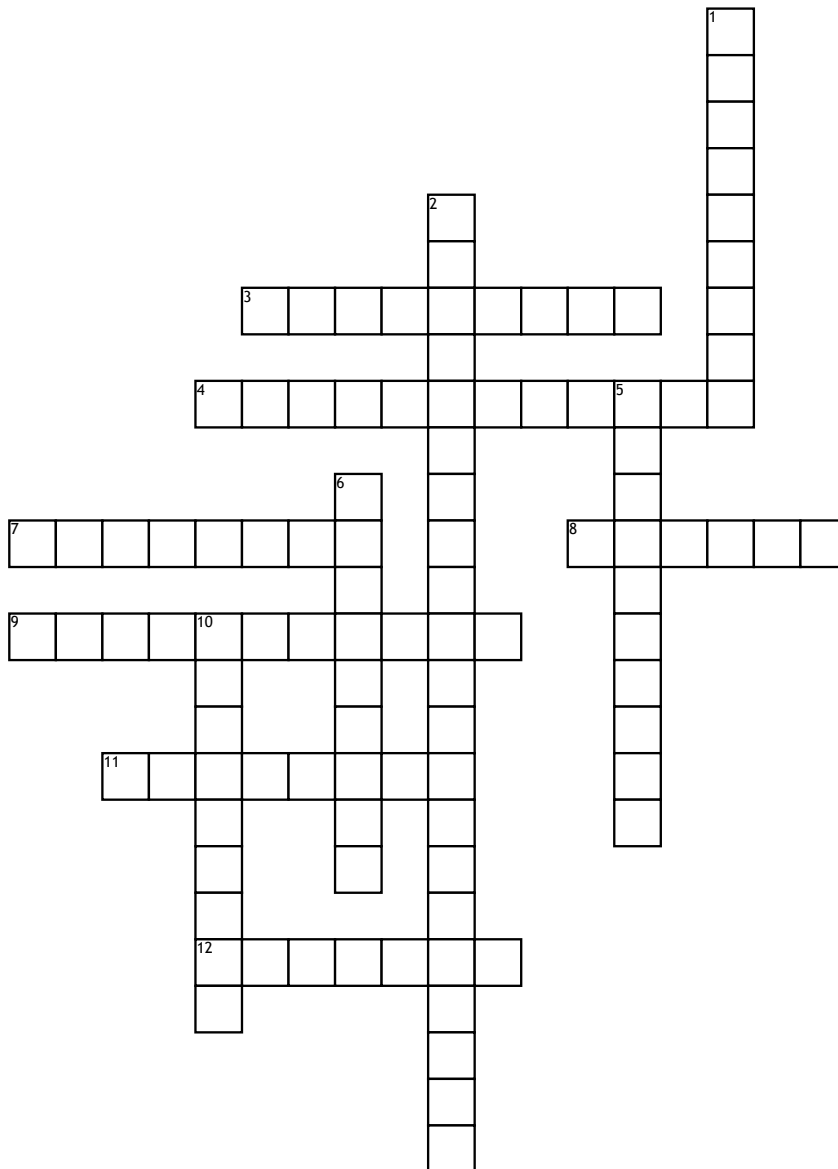


Name: _____

Date: _____

The Cell Cycle



Across

3. What is the series of events that take place in a cell leading to its division and duplication of its DNA to produce two daughter cells?

4. What is the process by which a parent cell divides into two or more daughter cells?

7. _____ is the first stage of cell division, before metaphase, during which the chromosomes become visible as paired chromatids and the nuclear envelope disappears.

8. What is the complete set of genes or genetic material present in a cell or organism?

9. What is a threadlike structure of nucleic acids and protein found in the nucleus of most living cells, carrying genetic information in the form of genes?

11. _____ is the stage of meiotic or mitotic cell division in which the chromosomes move away from one another to opposite poles of the spindle.

12. _____ which is referring to the cells of the body in contrast to the germ line cells.

Down

1. What is the material of which the chromosomes of organisms other than bacteria (i.e., eukaryotes) are composed?

2. _____ are a family of sugar kinases first discovered for their role in regulating the cell cycle.

5. What is the resting phase between successive mitotic divisions of a cell, or between the first and second divisions of meiosis?

6. What is the final phase of cell division, between anaphase and interphase, in which the chromatids or chromosomes move to opposite ends of the cell and two nuclei are formed?

10. What is the second stage of cell division, between prophase and anaphase, during which the chromosomes become attached to the spindle fibers?