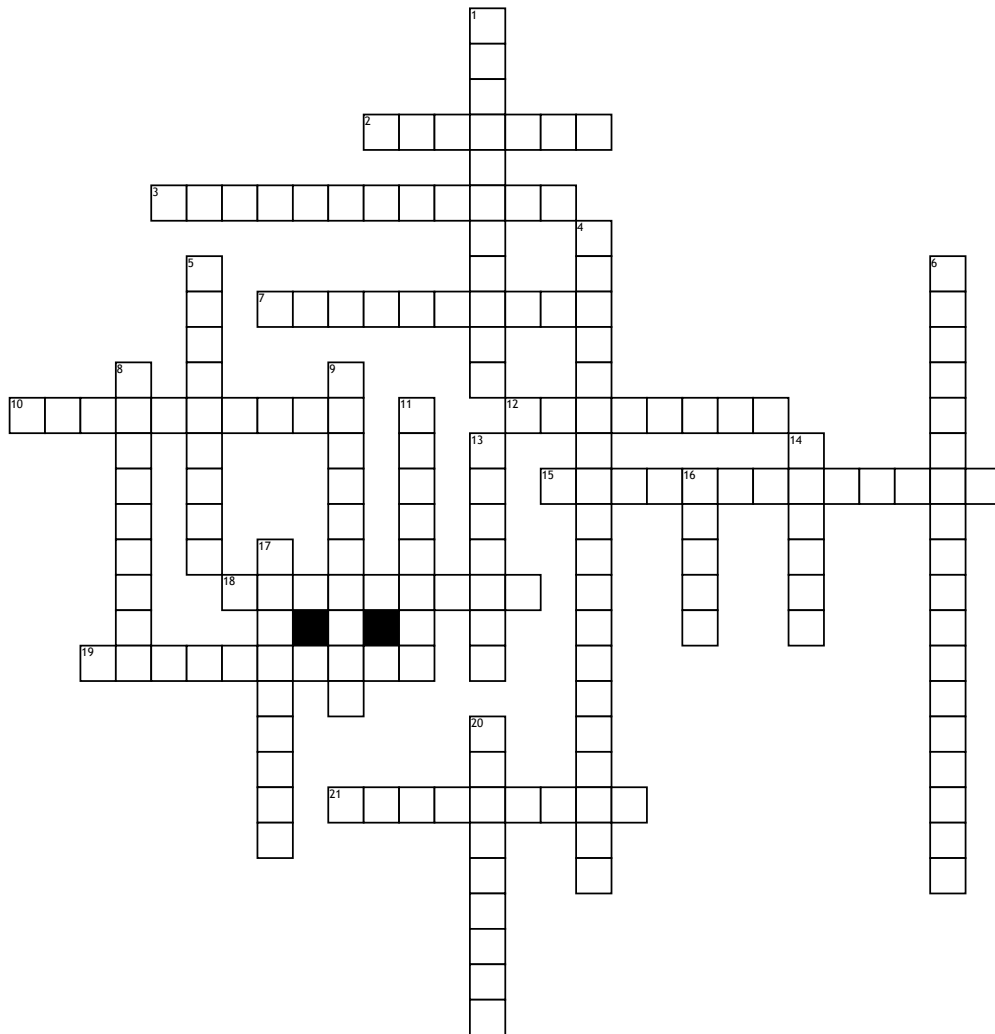


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# Cell Division, Chapter 10



## Across

2. duplication of the cell's genetic information which is described by four phases

3. the process by which a cell divides into two daughter cells

7. DNA, genetic information, that is bundled and packaged in the cell in preparation for cell division

10. part of cell cycle where the cell grows, DNA replicates, and the organelles and molecules produced for cell division

12. 3rd phase of mitosis, the chromosomes separate and move along spindle fibers to opposite ends of the cell

15. proteins that stimulate the growth and division of cells

18. one of the duplicated strands of DNA, sometimes the two strands are referred to sister chromatids

19. where the duplicated strands of DNA attach

21. a process of programmed cell death (two ways cells end their life cycle: damage or programmed)

## Down

1. the splitting of one cell into two, occurs after the phase of mitosis are complete

4. the production of genetically identical offspring from a single parent is known as asexual reproduction

5. 4th and final phase of mitosis, the chromosomes, which were distinct and condensed, begin to spread out into a tangle of chromatin

6. offspring produced by sexual reproduction inherit some of their genetic information from each parent

8. a series of events where a cell grows, prepares for division and divides to form two daughter cells

9. tiny paired structures where spindles come from to attach to the centromere to

11. 1st phase of mitosis, takes the longest, the genetic material inside the nucleus condenses and the duplicated chromosomes become visible

13. proteins that regulate the timing of the cell cycle, these proteins are inside and outside of the cell

14. a mass of body cells that do not respond to the signals that regulate the growth of most cells

16. a mass of cells

17. DNA exists in the nucleolus in chromatin form

20. 2nd phase of mitosis, the centromere of the duplicated chromosomes line up across the center of the cell

## Word Bank

interphase  
centromere  
chromosome  
cell cycle  
cytokinesis

chromatin  
cell division  
sexual reproduction  
chromatid

anaphase  
metaphase  
apoptosis  
cancer

tumor  
asexual reproduction  
centrioles  
prophase

growth factors  
telophase  
cyclins  
mitosis