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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Mitosis Crossword Puzzle

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|  |  |  |  |  |  |  | 1  A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | S |  |  |  |  |  | 2  C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | E |  |  |  |  |  | Y |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | X |  |  |  |  |  | T |  |  |  |  |  |  | 3  S |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | U |  |  |  |  |  | O |  |  |  |  |  |  | T |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | A |  |  |  |  |  | K |  | 4  A |  |  |  |  | E |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 5  C | E | L | L | D | I | V | I | S | I | O | N |  |  |  |  | M |  |  | 6  C |  |  |  |  |  |  |
|  |  |  |  |  |  |  | R |  |  |  |  |  | N |  | A |  |  |  |  | C |  |  | A |  |  |  |  |  |  |
|  |  |  |  |  |  |  | E |  |  |  | 7  S |  | E |  | P |  |  | 8  M |  | E |  |  | N |  |  |  |  |  |  |
|  |  |  |  | 9  P | R | O | P | H | A | S | E |  | S |  | H |  | 10  C | E | L | L | C | Y | C | L | E |  |  |  |  |
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|  |  |  |  |  |  |  | D |  |  |  | A |  |  | 11  T | E | L | O | P | H | A | S | E |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  | C |  |  |  | R |  | 12  C | H | R | O | M | A | T | 13  I | D |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  | O |  |  |  | R |  |  |  |  |  |  |  |  | E |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 15  C | E | N | T | R | I | O | L | E | S |  | 16  T | U | 17  M | O | R |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | 19  C | H | R | O | M | O | S | O | M | E | S |  |  |  |  |  |  |  |  |  |  |  |
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| **Across**  **5.** Process by which a cell divides into new daughter cells.  **9.** The first phase of mitosis where the genetic material inside the nucleus condenses and the duplicated chromosomes become visible  **10.** A series of events in which a cell grows, prepares for division, and divides to form two daughter cells.  **11.** the fourth and final phase of mitosis where the chromosomes, which were distinct and condensed begin to spread out into a tangle of chromatin  **12.** one of two identical "sister" parts of a duplicated chromosomes  **14.** region of a chromosome where the two sister chromatids attach.  **15.** Spindle fibers extend from a region called the centrosome, where tiny paired structures are located  **16.** mass of rapidly dividing cells that damage surrounding tissue  **18.** the chromosomes in eukaryotic cells from a close association with histones, a type of protein.  **19.** Genetic info. that is bundled into packages of DNA | **Down**  **1.** the production of genetically identical offspring from a single parent.  **2.** division of the cytoplasm to form two separate daughter cells  **3.** unspecialized cell that can give rise to one or more types of specialized cells.  **4.** the third phase of mitosis where the chromosomes separate and move along spindle fibers to opposite ends of the cell.  **6.** disorder in which some of the body's cells lose the ability to control growth  **7.** type of reproduction in which cells form two parents unite to form the first cell of a new organism.  **8.** the second phase of mitosis where the centromeres of the duplicated chromosomes line up across the center of the cell  **13.** One cell division after another separated by an "in-between" period of growth.  **17.** Part of eukaryotic cell division during which the cell nucleus divides. |

   Cell division       sexual reproduction        Asexual reproduction       chromosomes       Chromatin       Cell cycle       interphase       Mitosis       prophase       Chromatid       centrioles       metaphase       anaphase       telophase       Centromere       Cytokinesis       cancer       tumor       stemcell