Cell Growth and Division

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|  | 2  T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | E |  | 3  C | H | R | O | M | O | S | O | M | E | C | O | U | N | T |  |  |
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|  | O |  |  |  |  |  |  |  |  | 4  C |  |  | 5  C |  |  |  |  |  | 6  S |
|  | P |  |  |  | 7  C |  |  |  |  | Y |  |  | E |  |  |  |  |  | A |
|  | H |  |  |  | H |  |  | 8  C |  | T |  |  | N |  |  |  |  |  | T |
| 9  C | A | N | C | E | R |  | 10  C | H | R | O | M | A | T | I | N |  |  |  | O |
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| 15  C | E | L | L | C | Y | C | L | E |  |  |  |  |  |  | A |  | E |  |  |
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| **Across**  **1.** Synthesis phase.  **3.** All organisms cells have a different amount of chromosomes.  **9.** Cells that are experiencing uncontrolled growth and division.  **10.** The granular material in the nucleus.  **12.** Division of the cell's nucleus.  **14.** Lifetime of the cell when the cell grows and prepares to divide  **15.** Series of events in which a cell grows, prepares for division, and divides to form two daughter cells  **16.** The second phase of mitosis, and it only takes a couple minutes. It is when the chromosomes line up across the middle of the cell. | **Down**  **2.** The last phase of mitosis. It is when the chromosomes start to become a chromatin and the nucleolus becomes visible.  **4.** Division of the cell's cytoplasm.  **5.** The area where the chromatids are attached to each other.  **6.** Surface area will increase slower that volme  **7.** A part of two identical sister parts of duplicated chromosomes.  **8.** Contains DNA that is passes from an old generation of cells to another.  **11.** The third phase of mitosis. It is when the sister chromatids separate and move to opposite poles.  **13.** The first phase of mitosis and it's the longest lasting phase.It is when the chromosomes become visible and they attach to the spindle and coil up. |