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|  |  |  |  | 9  R |  |  | 10  M | A | T | T | H | I | 11  A | S | S | C | H | L | S | E | I | D | E | N |  | E |  |  |  |
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|  |  |  |  | H |  | Y |  |  | O |  | 17  C | H | L | O | R | O | P | L | A | 18  S | T | S |  | S |  | N |  | 19  D |  |
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|  |  |  |  | E |  | E |  |  | N |  |  |  | 22  C |  |  | 23  S |  | D |  | E |  |  |  | N |  | S |  | H |  |
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|  |  |  |  |  |  | E |  |  | R |  |  |  | T |  |  | A |  | T |  | L |  |  |  | K |  | P |  | A |  |
|  |  | 25  R | U | D | O | L | F | V | I | R | C | H | O | W |  | G |  | U |  | I |  |  |  | N |  | I |  | G |  |
|  |  |  |  |  |  | E |  |  | A |  |  |  | P |  |  | E |  | B |  | P |  |  |  | O |  | E |  | M |  |
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|  |  |  |  |  |  | S |  | 26  C | E | L | L | W | A | L | L |  |  |  |  |  |  |  |  |  |  | E |  |  |  |
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|  | 27  C | O | A | R | S | E | A | D | J | U | S | T | M | E | N | T | K | N | O | B |  |  |  |  |  |  |  |  |  |

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| **Across**  **2.** An organelle in a cell that receives protein and other newly formed material from the endoplasmic reticulum, packages them, and distributes them to other pants of the cell.  **4.** Theodor Schwann discovered that animals are made of cells  **6.** In cells, a large oval organelle that contains the cells genetic material in the form of DNA and controls many of the cells activities  **10.** Matthias schlseiden discovered that plants are made out of cells.  **15.** Provides magnification times 40  **17.** An organelle in the cells of plants and some other organisms that captures energy from sunlight and changes it to an energy form that cells can use in making food.  **20.** A thin flexible barrier that surrounds a cell and controls what goes in and out of a cell  **24.** Cells come from existing cells. Cells are the basic unit of life. All living thing have cells  **25.** He is a german physician, he came to the conclusion that all cells come from preexisting cells.  **26.** A rigid supporting layer that surrounds the cell of plants and some other organisms  **27.** moves the stage up and down for focusing - be careful when using on high power b/c you can crush the slide | **Down**  **1.** Produce protein  **3.** A organelle that contain chemicals that break down large food particles into smaller ones  **5.** Shines on slide  **7.** moves the stage up and down to slightly sharpen the image - use after the coarse adjustment knob  **8.** Holds high and low power objectives, can be rotated to adjust magnification.  **9.** Robert Hooke was the first person to see non living cells are name cells.  **11.** Supports the body tube  **12.** Stores water, food, and other materials needed by the cell  **13.** Basic unit of life  **14.** Powerhouse of a cell  **16.**  the lens at the top that you look through. They are usually 10X or 15X power.  **18.** Metal clips that hold the slide in place  **19.** Controls amount of light entering the body tube.  **21.** maintains distance between eyepiece and objectives lenses  **22.** The thick fluid region of a cell located inside the cell membrane and nucleus.  **23.** The flat platform where you place your slides. Stage clips hold the slides in place. If your microscope has a mechanical stage, you will be able to move the slide around by turning two knobs. One moves it left and right, the other moves it up and down. |