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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. |