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Characteristics of Life

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| **Across**  **3.** Process by which glucose is broken down into smaller parts.  **4.** Large macromolecule that doesn't dissovle in water.  **6.** Stiff structure outside the cell membrane that protects cell from attack of viruses and any other harmful organism.  **8.** Long chain of ammino acid molecules.  **15.** The smallest unit of all life.  **16.** A macromolecule that forms when long chains of nucleotides molecules join together.  **19.** Reaction that eukaryotes and prokaryote cells can use to obtain energy when oxygen levels are low.  **20.** Membrane-bound organelle that uses light energy and make glucose from water and carbn dioxide in the process of photosythesis.  **23.** Substance that forms when many small molecules join together.  **24.** The fexlable covering surrounding the cell to protect the inside of the cell from the environment outside the cell.  **25.** Movement of substances through a cell membrane using the cell's energy.  **26.** Process during which a cell takes in a substance by surrounding it with the cell membrane | **Down**  **1.** Part of a eukaryotic cell that directs cell activity and contains genetic info stored in DNA.  **2.** Movement of substances through a cell membrane without using the cells energy  **5.** Series of chemical reactions that convert light energy, water and carbon dioxide into food energy glucose and give off oxygen.  **7.** Liquid part of a cell inside the cell membrane.  **9.** Something that has all the charcateristics of life.  **10.** Network of thread like protiens joined together that gives cells their shape and helps them move.  **11.** A living thing made up of two or more cells.  **12.** A macromolecule made up of one or more sugar molecules. This is the body's main source of energy.  **13.** Process by which cell's vesicals release their contents outside the cell.  **14.** Theory that states: All living things are made up one or more cells; Cells are the smallest unit of life; All new cells come from preexisting cells.  **17.** Movement of substances from an area of lower concentration.  **18.** A living thing made up of only one cell.  **21.** Membrane-surrounded component of a eukaryotic cell with a specialized function.  **22.** An organisms ability to maintain steady internal conditions when outside conditions change. |