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biology definitions -topic one 2

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| **Across**  **3.**  A type of cell found in bacteria that does not contain a nucleus.  **5.** The smallest distance between two objects that can be distinguished.  **7.** A quantitative unit of length. One micrometre is equal to ×10-​6​ metre.  **11.** The speed at which reactants are converted into products.  **12.** Enzymes that break down proteins into amino acids.  **13.** The diffusion of water molecules from a region of high water concentration to a region of lower water concentration across a partially permeable membrane.  **15.** A specialised structure found inside a cell.  **18.** Loops of DNA found in the cytoplasm of prokaryotic cells.  **19.** A specialised male sex cell that is involved in reproduction.  **20.**  A large molecule that is synthesised from amino acids.  **21.**  A cell that has a structure which makes it adapted to its function. | **Down**  **1.** The proportion of the mass of a substance that has changed over a set period, calculated using:  **2.** A quantitative unit of length. One millimetre is equal to ×10-​3​ metre.  **4.**  A cell that has a structure which makes it adapted to its function.  **6.**  A quantitative unit of length. One picometre is equal to ×10-​12​ metre.  **8.** The number of times bigger an image appears compared to the original object, calculated using the formula:  **9.** An organelle found in plant cells which stores cell sap and supports the cell.  **10.** Sub-cellular structures that are the site of protein synthesis.  **14.** A quantitative unit of length. One nanometre is equal to ×10-​9​ metre.  **16.** An organelle that is the site of respiration.  **17.** An organelle found in most eukaryotic cells that contains the genetic material of the cell and controls the activities of the cell. |