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Particle Theory of Matter

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| **Across**  **2.** Anthing tat takes up space and has mass  **3.** The ability to do work  **7.** How fast a solute will dissolve in a solvent.  **9.** A mixture where particles of each component substance are not evenly dispersed.  **10.** The energy that flows from a warmer substance to a cooler substance.  **11.** The transfer of heat through special waves  **13.** The amount of solute that will dissolve in a solvent.  **15.** The transfer of heat energy through solids.  **16.** The amount of particles in a substance  **18.** A homogeneus mixture composed of two or more substances.  **19.** The transfer of heat energy in liquids and gases | **Down**  **1.** A measure of the energy contained within a substance.  **4.** A mixture where particles of each component substance are evenly dispersed.  **5.** Matter consisting of only one type of particle  **6.** Is an exlanation for why things work or how things happen and are based on observations of the world around us that are then tested.  **8.** A mixture where individual particles can be identified  **12.** A substance that is dissolved in solvent.  **14.** The substance that the solute is dissolved in.  **17.** Matter consisting of more than one type of particle |