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Properties of Matter

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| **Across**  **2.** space and object takes up  **6.** do not react with other substances  **8.** definite volume but no definite shape  **11.** matter in an object  **12.** hot mixture of ions and electrons  **14.** when a substance dissolves in another  **16.** transfer of thermal energy by the motion of fluids  **18.** substances that change or react  **20.** describes how easily a substance reacts with another | **Down**  **1.** when two or more substances are combined and changed into new substances with new properties  **3.** features of all matter that can be observed and measured without changing the chemical composition of the solution  **4.** describes whether or not a substance will burn  **5.** another name for chemical changes  **7.** transfer of thermal energy by electromagnetic waves  **9.** a measure of the average kinetic energy of the particles in an object  **10.** neither a definite shape or definite volume  **13.** substance that dissolves  **15.** substance in which the solute dissolves  **17.** new substances produced  **19.** definite shape and volume |