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Substances and Mixtures

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| **Across**  **2.** The total energy of the motion of all the particles in an object  **4.** A characteristic of a substance that can be observed without changing it into another substance  **6.** A measure of the mass of a material in a given volume  **9.** Made of two or more substances that are together in the same place, but their atoms are not chemically bonded  **10.** A measure of how hot or cold something is  **12.** A change in which energy is absorbed  **13.** A group of two or more atoms held together by chemical bonds  **14.** When atoms combine, they form this, which is a force of attraction between two atoms  **15.** A measure of the force of gravity on you  **16.** The amount of matter in an object  **20.** You can usually see the different parts and they can be easily be separated  **22.** A change in matter that produces one or more new substances  **23.** Anything that has mass and takes up space | **Down**  **1.** The study of matter and how matter changes  **3.** Alters the form appearance of matter but does not turn any substances in the matter into a different substance  **5.** Releases energy  **7.** The amount of space that matters occupies  **8.** Are evenly mixed that you can't see the different parts  **11.** Which shows the elements in the compound and the ratio of atoms  **17.** A single kind of matter that is pure, meaning it always has a specific makeup, or composition  **18.** A substance made of two or more elements that are chemically combined in a set ratio  **19.** The basic particle from which all elements are made  **21.** A substance that cannot be broken down into any other substances by chemical or physical means |