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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  |