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Chemistry Vocab

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| **Across**  **3.** shows the materials's ability to react with another substance  **7.**  the positive subatomic particle in the nucleus which determines its atomic number and along with the neutron determines the atomic mass  **10.**  one of a class of substances that cannot be separated into simpler substances by chemical means.  **12.**  the columns of the periodic table; they are grouped by similar chemical and physical properties  **15.**  shows the material's ability to be drawn into a thin wire  **16.**  a group of elements consisting of properties of metals and nonmetals and are located on the diagonal line  **17.**  A usually irreversible change that changes the arrangement of the atoms in the chemical composition that involves a formation of a new substance.  **19.**  the particle in the surrounding cloud of the nucleus having a negative charge and is 1000 times smaller than a proton  **20.**  the rows of the periodic table; they go in an ascending order with the atomic number  **21.**  the particle in the nucleus of the atom which has the biggest mass and no charge which determines the atomic mass with the proton  **22.**  the most reactive metal group located at the leftmost of the the periodic table.  **23.**  a property or characteristic of a substance that is observed during a reaction in which the chemical composition or identity of the substance is changed  **24.**  a property of a substance of matter that can be observed without changing the chemical composition of the substance. | **Down**  **1.**  the charge of an electron  **2.**  a set of elements which are organized on a table according to the atomic number, electron configuration, and physical/chemical properties  **4.**  an atom that is either mostly negatively charged or mostly positively charged  **5.**  any of the group of bivalent metals including barium, radium, strontium, calcium, and, usually, magnesium, the hydroxides of which are alkali's but less soluble than those of the alkali metals.  **6.**  the mostly nonreactive group which are at the rightmost of the periodic table  **8.**  anything that has mass and takes up space  **9.**  A usually reversible change in the physical properties of a substance.  **11.**  the charge of a proton  **13.**  show the material's ability to be molded into a different shape  **14.** What is the smallest particle of an element consisting the same chemical properties of the element  **18.**  shows the materials's ability to catch fire |