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What Makes Up Matter

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| **Across**  **4.** Elements that have a combination of metals and nonmetals.  **6.** Has a negative electrical charge and is a subatomic particle.  **7.** Chart that organizes the elements.  **9.** Atoms of the same element that have different numbers of electrons. Hint: Oxygen  **12.** Has no electrical charge (Neutral) and is a subatomic particle.  **13.** When an atom gains or loses one or more electrons, it forms this charged particle.  **16.** An atom's nucleus is made up of these smaller particles.  **20.** Has a positive electrical charge and is a subatomic particle.  **21.** Type of bond between atoms in which electrons are shared.  **22.** Where most of the atom's mass is located  **23.** Atoms are joined together by forming this.  **24.** Element that is a good conductor of electricity and heat.  **25.** Elements that have full outer energy levels. Considered stable and unreactive.  **26.** Molecule made of covalently bonded atoms that often share electrons unequally.  **27.** Substances that contain two or more elements that are chemically joined together.  **28.** Type of bond made up of positively charged metal ions surrounded by a "sea" of negative elements.  **29.** Covalent compound that contains one or more carbon atoms. | **Down**  **1.** Electrons in the outermost energy level.  **2.** Compound composed of only carbons and hydrogen atoms.  **3.** Element that does not conduct heat and electricity easily.  **5.** The small building blocks of matter.  **8.** Smallest unit of a compound that still has properties of that compound.  **10.** The number of protons in an atom's nucleus.  **11.**  Number of protons + number of neutrons in an atom = ?  **14.** Anything that has mass and takes up space  **15.** Compounds that have same chemical formula but different molecular structures and shapes.  **17.** A group of symbols that demonstrate the makeup of a compound. Hint: NaCl  **18.** Type of bond formed when two ions with opposite charges attract each other.  **19.** Substance that cannot be broken down chemically into any other substance. |