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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. |