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Chemistry 5th

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| **Across**  **5.** the center of an atom where protons and neutrons are located  **7.** a change in one or more physical properties  **8.** Describes the way a substance reacts with other substances.  **9.** The smallest particle of an element that has the properties of the element.  **10.** A substance that cannot be broken down into other substances by heat, light or electricty  **11.** particle in an atom that has a negative electrical charge  **12.** A change that produces new substances with new properties | **Down**  **1.** A way of describing an object using traits that can be observed or measured without changing the substance into something else.  **2.** particle of an atom that has a positive electrical charge  **3.** A process that produces one or more substances that are different from the original substances.  **4.** A chart that classifies elements by their properties  **6.** particle in an atom that has no charge |

   element       nucleus       neutron       physical change       Periodic table       atom       proton       electron       physical property       Chemical property       chemical change       Chemical Reaction