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Atomic theory

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| **Across**  **4.** a characteristic that can be observed without changing into another substance  **5.** the number of protons of an atom  **8.** Group 17 salt former  **10.** the energy needed to take an electron from an atom  **14.** composed of two or more elements  **17.** created the visual model of an atom  **19.** group 18  **20.** J.J Thomson Created used blank to prove that atoms can be broken into smaller parts | **Down**  **1.** used the gold foil experiment  **2.** a negative Subatomic particle  **3.** half the distance between the centers of two atoms that are touching each other  **6.** Same number of protons but different neutrons  **7.** a characteristic that describes the ability to change into different substances  **9.** most reactive of all metals  **11.** an atoms ability to attract an electron  **12.** a neutral subatomic particle  **13.** a family with a group of elements with similar properties  **15.** Father of atomic theory  **16.** can not be broken down into simpler substances  **18.** a positive charged subatomic particle |