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Atomic Theory

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| **Across**  **9.** discovered the electron and developed the plum pudding model  **10.** said that an element is any substance that cannot be decomposed into a simpler substance  **11.** the name of Millikan's experiment  **12.** subatomic particle with a neutral charge  **14.** name of Ruherford's atom model  **16.** first proposed the idea of the atom  **18.** name of Schrodinger's model  **20.** used Gold foil experiment to discover protons and the nucleus | **Down**  **1.** orbits in patterns are called \_\_\_\_\_\_\_\_  **2.** thought only four elements existed  **3.** suggested that orbits are not always circular but in patterns called orbitals  **4.** tool used to discover the electron  **5.** subatomic particle that has a positive charge  **6.** proposed the \_\_\_\_\_\_\_\_\_\_ Uncertainty Principle  **7.** discovered charge and mass of electron  **8.** subatomic particle that has a negative charge  **13.** protons and neutrons are contained in the \_\_\_\_\_\_\_\_\_  **15.** the element used in Rutherford's experiment  **17.** discovered the neutron  **19.** means indivisible in Greek |