

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Scientists of Atomic Theory

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|--|-------------------------|
| 1. Father of the Atom  | A. James Chadwick       |
| 2. Believed in Earth Elements (earth, fire, water, air)  | B. Aristotle            |
| 3. Created the first atomic model  | C. Max Planck           |
| 4. Discovered the electron; Plum Pudding Model   | D. Henry Moseley        |
| 5. Discovered Elements Ra and Po   | E. Fritz Strausmann     |
| 6. Quantum Theory of Energy  | F. Erwin Schrodinger    |
| 7. Determined the charge & mass of an electron   | G. Marie & Pierre Curie |
| 8. Gold Foil Experiment; Atom is mostly empty space; Discovered the nucleus.   | H. Democritus           |
| 9. Discovered that electrons move around the nucleus in orbits called electron shells  | I. Otto Hahn            |
| 10. Arranged the periodic table by atomic number instead of mass number  | J. Wolfgang Pauli       |
| 11. Contributed to creation of Quantum Mechanics; pioneer in the theory of crystals; won Nobel Prize in 1954 for his work in interpretation of the wave function first proposed in 1926. | K. J.J. Thompson        |
| 12. All moving objects have wave-like behavior. Matter shows properties of both wave and particles   | L. Niels Bohr           |
| 13. Pauli exclusion principle  | M. Werner Heisenberg    |
| 14. Discovered the neutron   | N. Robert Millikan      |
| 15. Discovered nuclear fission   | O. Max Born             |
| 16. Father of nuclear chemistry  | P. John Dalton          |
| 17. Discovered nuclear fission with Otto Hahn and help from Lise Meitner   | Q. Earnest Rutherford   |
| 18. A German physicist that speculated that there was no real certainty in where an electron was, and only tendencies. This broke down Newton's dependable laws to only probabilities.   | R. Louis de Broglie     |
| 19. Quantum Mechanical Model of the atom   | S. Lise Meitner         |