

AP History of Atom, rev.1

<b>Published</b>	<b>Author(s)</b>	<b>Author's Life</b>	<b>Principal</b>
400 BC	Democritus Leucippus (mentor) Epicurus	460-370 BC	Atom/void (vs. Aristotle)
1775	Lavoisier	1743-1794	Conservation of matter (debunked phlogiston)
1808	Dalton	1766-1844	Atomic theory (billiard ball/ball and hook)
1863	Newlands	1837-1898	Periodic table "Law of Octaves"
1864-1869	Meyer	1830-1895	Periodic table
1869	Mendeleev	1834-1907	Periodic table
1888	Rydberg	1854-1919	Spectroscopic energy transitions, n quantum
1897	Thompson	1856-1940	Charge to mass ratio of electron
1900	Planck	1858-1947	Black-body radiation, quantization
1905	Einstein	1879-1955	Photoelectric effect, "light quanta"
1909	Millikan	1868-1953	Charge of electron
1910	Rutherford	1871-1937	Nuclear atom
1913	Bohr	1885-1962	Planetary model
1916	Sommerfeld	1868-1951	Fine-structure constant, l quantum
1920	Rutherford	1871-1937	Proton
1925	Pauli	1900-1958	Exclusion principle
1925	DeBroglie	1892-1987	Matter waves, standing circular wave
1925 1926	Born	1882-1970	Quantum matrix mechanics Probability density function
1926	Schrodinger	1887-1961	Wave equation
1926	Lewis	1875-1946	Popularized the name "photon"
1927	Heisenberg	1901-1976	Uncertainty principle
1932	Chadwick	1891-1974	Neutron

## Simplified History of Atom

<b>Published</b>	<b>Author(s)</b>	<b>Author's Life</b>	<b>Principal</b>
400 BC	Democritus	460-370 BC	Atom/void (vs. Aristotle)
1808	Dalton	1766-1844	Atomic theory "Billiard Ball" or "Ball and Hook" Model
1869	Mendeleev	1834-1907	Periodic table
1897	Thompson	1856-1940	Electron charge, "Plum Pudding" Model
1910	Rutherford	1871-1937	"Nuclear" Model
1913	Bohr	1885-1962	"Planetary" Model
1920	Rutherford	1871-1937	Proton
1926	Schrödinger	1887-1961	Wave equation
1932	Chadwick	1891-1974	Neutron

Lavoisier	1743-1794
Dalton	1766-1844
Meyer	1830-1895
Mendeleev	1834-1907
Newlands	1837-1898
Rydberg	1854-1919
Thompson	1856-1940
Planck	1858-1947
Sommerfeld	1868-1951
Millikan	1868-1953
Rutherford	1871-1937
Lewis	1875-1946
Einstein	1879-1955
Born	1882-1970
Bohr	1885-1962
Schrodinger	1887-1961
Chadwick	1891-1974
DeBroglie	1892-1987
Pauli	1900-1958
Heisenberg	1901-1976