

Some Milestones in the History of Western Science

<i>Date</i>	<i>Key Person</i>	<i>Milestone</i>
400 BC	Hippocrates	"Father of Medicine"
350 BC	Aristotle	Systematic observation of nature to obtain knowledge
225 BC	Archimedes	Greek mathematician, physicist, engineer, astronomer. Leading scientist of classical antiquity
200 BC	Aristarchus	First heliocentric model
200 BC	Eratosthenes	System of latitude and longitude, calculated size of Earth and distance to sun
140 ad	Ptolemy	Mathematics and Astronomy
200 ad	Galen	Most accomplished medical researcher of Roman era, dissection illustrations
1500	Leonardo da Vinci	Archetype of the Renaissance man
1543	Nicolaus Copernicus	<i>De revolutionibus orbium coelestium</i>
1596	Johannes Kepler	Laws of planetary motion
1600	Galileo Galilei	Demonstrated Copernicus' heliocentric solar system employing the telescope
1628	William Harvey	<u>Calculated</u> that the heart circulates blood, rather than manufactures it, <i>De Motu Cordis</i>
1637	René Descartes	<i>Discourse on Method</i>
1650	Christian Huygens	Wave Nature of Light
1674	Antonie van Leeuwenhoek	Father of microbiology, germ theory of life
1726	Sir Isaac Newton	<i>Principia</i> , Laws of Motion, Calculus... <i>on and on...</i>
1735	Carl Linnaeus	Father of modern taxonomy, <i>Systema Naturae</i>
1821	Michael Faraday	Electromagnetic Induction
1855	James Clerk Maxwell	Electromagnetic theory, Maxwell's equations
1860	Gregor Mendel	Founder of the study of Genetics
1864	Charles Darwin	<i>On the Origin of Species</i>
1895	Wilhelm Röntgen	Discovery of the X-Ray
1897	J.J. Thompson	Discovery of the electron, "Cathode Rays"
1899	Ernest Rutherford	Discovery of the nucleus, Father of nuclear physics
1905	Albert Einstein	General Relativity, Photoelectric effect
1925	Werner Heisenberg	Heisenberg Uncertainty Principle
1925	Pierre Auger	Discovery of the Auger electron
1929	Edwin Hubble	Hubble's red shift leads to the Big Bang!
1939	Linus Pauling	X-Ray Crystallography to explore molecules, <i>The Nature of the Chemical Bond</i>
1953	Watson & Crick	The structure of the DNA molecule
1964	Richard Feynman	<i>Lectures on Physics</i>
1969	Neil Armstrong	First man on the moon
1976	Herb Boyer	Chemical engineering of genomes, Genentech (1 st biotech company)
1990	NASA	Hubble Space Telescope
2003	Human Genome Project	First complete sequence of a human genome
2010	Craig Venter	First Synthesis of Complete Genome