My STEM Biography Project

Choose a scientist, inventor, doctor or engineer (there are 161 to pick from on page 2), read about them, then fill this in. Use your own words.

Name _____ **Class** _____ **Date** _____

The person I chose _____ **Lived** _____

Field: ☐ Physics ☐ Mathematics ☐ Computing ☐ Chemistry ☐ Biology ☐ Medicine ☐ Engineering

Where did they grow up, and how did they get into science?

The moment that changed everything

When and where was it? Who was there? What happened?

Their big idea, in my own words

Explain it so a younger student would understand.

What stood in their way?

Money, war, prejudice, people who disagreed, a missing tool…

How did they test or prove the idea?

What is different today because of them?

Three facts and where I found them

Fact	Source (book, page or website)

One question I would ask them

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Choose your scientist

Tick the one you will research. Not sure? Pick someone whose invention or idea you use every day.

Physics

Vol. 1: The Greatest Physicists

- ☐ Isaac Newton 1642–1727
- ☐ Nikola Tesla 1856–1943
- ☐ Marie Curie 1867–1934
- ☐ Albert Einstein 1879–1955
- ☐ Daniel Bernoulli 1700–1782
- ☐ Galileo Galilei 1564–1642
- ☐ Michael Faraday 1791–1867
- ☐ Max Planck 1858–1947
- ☐ Stephen Hawking 1942–2018
- ☐ Niels Bohr 1885–1962
- ☐ James Clerk Maxwell 1831–1879
- ☐ Ole Rømer 1644–1710
- ☐ Ernest Rutherford 1871–1937
- ☐ Richard Feynman 1918–1988
- ☐ Alessandro Volta 1745–1827
- ☐ Benjamin Franklin 1706–1790
- ☐ Archimedes c. 287–212 BC
- ☐ Heinrich Hertz 1857–1894
- ☐ Johannes Kepler 1571–1630
- ☐ Georg Ohm 1789–1854
- ☐ J. Robert Oppenheimer 1904–1967
- ☐ Enrico Fermi 1901–1954
- ☐ James Chadwick 1891–1974
- ☐ Henri Becquerel 1852–1908
- ☐ J. J. Thomson 1856–1940
- ☐ Thomas Edison 1847–1931

Mathematics

Vol. 2: Mathematical Masterminds

- ☐ Carl Friedrich Gauss 1777–1855
- ☐ Blaise Pascal 1623–1662
- ☐ Alan Turing 1912–1954
- ☐ Leonhard Euler 1707–1783
- ☐ Paul Erdős 1913–1996
- ☐ Eratosthenes c. 276–194 BC
- ☐ Pythagoras c. 570–495 BC
- ☐ Fibonacci c. 1170–after 1240
- ☐ Euclid c. 325–265 BC
- ☐ Girolamo Cardano 1501–1576
- ☐ Srinivasa Ramanujan 1887–1920
- ☐ Pierre-Simon Laplace 1749–1827
- ☐ Bernhard Riemann 1826–1866
- ☐ Pierre de Fermat 1601 or 1607–1665
- ☐ Katherine Johnson 1918–2020
- ☐ Henri Poincaré 1854–1912
- ☐ Gottfried Wilhelm Leibniz 1646–1716
- ☐ Ada Lovelace 1815–1852
- ☐ Terence Tao born 1975
- ☐ John Nash 1928–2015
- ☐ Georg Cantor 1845–1918
- ☐ John von Neumann 1903–1957
- ☐ Joseph-Louis Lagrange 1736–1813

Computing

Vol. 3: Tech Titans of Silicon Valley

- ☐ Steve Jobs 1955–2011
- ☐ Bill Gates born 1955
- ☐ Steve Wozniak born 1950
- ☐ Mark Zuckerberg born 1984
- ☐ Kevin Mitnick 1963–2023
- ☐ Linus Torvalds born 1969
- ☐ Tim Berners-Lee born 1955
- ☐ Grace Hopper 1906–1992
- ☐ Gordon Moore 1929–2023
- ☐ Robert Noyce 1927–1990
- ☐ Bob Kahn and Vint Cerf born 1938 and 1943
- ☐ Edsger Dijkstra 1930–2002
- ☐ Jack Dorsey born 1976
- ☐ Peter Thiel born 1967
- ☐ Elon Musk born 1971
- ☐ Marc Andreessen born 1971
- ☐ Shawn Fanning born 1980
- ☐ James Gosling born 1955
- ☐ Guido van Rossum born 1956
- ☐ Michael Dell born 1965
- ☐ Richard Stallman born 1953
- ☐ Jeff Bezos born 1964
- ☐ Larry Page and Sergey Brin both born 1973
- ☐ Jimmy Wales born 1966
- ☐ Larry Ellison born 1944

Chemistry

Vol. 4: Explosive Chemists

- ☐ Alfred Nobel 1833–1896
- ☐ Antoine Lavoisier 1743–1794
- ☐ Dmitri Mendeleev 1834–1907
- ☐ Robert Boyle 1627–1691
- ☐ Adolf von Baeyer 1835–1917
- ☐ Fritz Haber 1868–1934
- ☐ Rosalind Franklin 1920–1958
- ☐ Mario Molina 1943–2020
- ☐ Alice Ball 1892–1916
- ☐ Linus Pauling 1901–1994
- ☐ Dorothy Hodgkin 1910–1994
- ☐ Percy Julian 1899–1975
- ☐ Humphry Davy 1778–1829
- ☐ August Kekulé 1829–1896
- ☐ Louis Pasteur 1822–1895
- ☐ Gertrude Elion 1918–1999
- ☐ Svante Arrhenius 1859–1927
- ☐ Leo Baekeland 1863–1944
- ☐ Carl Scheele 1742–1786
- ☐ Amedeo Avogadro 1776–1856
- ☐ Tu Youyou born 1930
- ☐ Stephanie Kwolek 1923–2014
- ☐ Henry Cavendish 1731–1810
- ☐ Ahmed Zewail 1946–2016

Biology

Vol. 5: Brilliant Biologists

- ☐ Charles Darwin 1809–1882
- ☐ Gregor Mendel 1822–1884
- ☐ Jane Goodall 1934–2025
- ☐ Rachel Carson 1907–1964
- ☐ Carl Linnaeus 1707–1778
- ☐ Barbara McClintock 1902–1992
- ☐ Alexander von Humboldt 1769–1859
- ☐ Alfred Russel Wallace 1823–1913
- ☐ Antonie van Leeuwenhoek 1632–1723
- ☐ E. O. Wilson 1929–2021
- ☐ Dian Fossey 1932–1985
- ☐ George Washington Carver c. 1864–1943
- ☐ Lynn Margulis 1938–2011
- ☐ Thomas Hunt Morgan 1866–1945
- ☐ Wangari Maathai 1940–2011
- ☐ David Attenborough born 1926
- ☐ Robert Hooke 1635–1703
- ☐ Mary Anning 1799–1847
- ☐ James Watson and Francis Crick 1928–2025 and 1916–2004
- ☐ Charles Henry Turner 1867–1923

Medicine

Vol. 6: Medical Pioneers

- ☐ Alexander Fleming 1881–1955
- ☐ Edward Jenner 1749–1823
- ☐ Florence Nightingale 1820–1910
- ☐ Jonas Salk 1914–1995
- ☐ Hippocrates c. 460–370 BC
- ☐ Elizabeth Blackwell 1821–1910
- ☐ Joseph Lister 1827–1912
- ☐ Virginia Apgar 1909–1974
- ☐ William Harvey 1578–1657
- ☐ Andreas Vesalius 1514–1564
- ☐ Daniel Hale Williams 1856–1931
- ☐ Christiaan Barnard 1922–2001
- ☐ Ignaz Semmelweis 1818–1865
- ☐ Charles Drew 1904–1950
- ☐ Helen Taussig 1898–1986
- ☐ Rebecca Lee Crumpler 1831–1895
- ☐ Harvey Cushing 1869–1939
- ☐ Paul Ehrlich 1854–1915
- ☐ Galen c. AD 129–216
- ☐ Ibn Sina (Avicenna) c. 980–1037

Engineering

Vol. 7: Extraordinary Engineers

- ☐ Isambard Kingdom Brunel 1806–1859
- ☐ Gustave Eiffel 1832–1923
- ☐ James Watt 1736–1819
- ☐ Fazlur Rahman Khan 1929–1982
- ☐ Emily Warren Roebling 1843–1903
- ☐ Wernher von Braun 1912–1977
- ☐ George Stephenson 1781–1848
- ☐ Lillian Gilbreth 1878–1972
- ☐ Sergei Korolev 1907–1966
- ☐ John Smeaton 1724–1792
- ☐ Hertha Ayrton 1854–1923
- ☐ Claude Shannon 1916–2001
- ☐ Norbert Rillieux 1806–1894
- ☐ Henry Ford 1863–1947
- ☐ Marc Isambard Brunel 1769–1849
- ☐ Granville Woods 1856–1910
- ☐ Ellen Swallow Richards 1842–1911
- ☐ Rudolf Diesel 1858–1913
- ☐ Mokshagundam Visvesvaraya 1861–1962
- ☐ Lee de Forest 1873–1961