





- to poke out виглядати, висовуватись;
- virtually ['vз:tʃvəlɪ] фактично, практично;
- human endeavor [ın'dɛvə] людська діяльність;
- motion pyx;
- gravity ['græviti] сила тяжіння;
- DNA ДНК;
- application [plɪˈkeɪʃ(ə)n] програми;
- persued by people проведені людьми, «переслідувані» людьми;
- controversial [kɒntrəˈvːзʃ(ə)l] спірний, дискусійний;
- regard to щодо, відноситись до;
- to lay the foundation закладати фундамент;
- force сила;
- the forces acting upon[ə'ppn] сили, що діють на;
- influential [inflo'εnf(ə)l] впливовий;

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in response to - у відповідь;
polymath ['pɒlɪmæp] – ерудит;
via ['vaɪə] — через;
immense [ı'mɛns] – величезний, колосальний;
cargo ['kaːgəʊ] – вантаж;
vicinity [vi'smiti] — навколишній район, прилеглий район;
directly [d(a)ı'rɛktlı] – відразу, негайно;
simultaneously [sim(ə)l'teiniəsli] – оддночасно, синхронно;
audible ['ɔːdɪb(ə)l] – звуковий;
the incandescent light bulb – лампа розжарювання;
relativity [rɛləˈtɪvɪtɪ] - теорія відносності;
equation [ı'kweiʒ(ə)n] – рівняння;
subsequent ['sʌbsɪkwənt] – наступний, подальший;
breakthrough ['breikθru:] – прорив;
citation [sai'tei\int(ə)n] — цитування, посилання (на автора);
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7 British Inventions

NEWTON'S LAWS

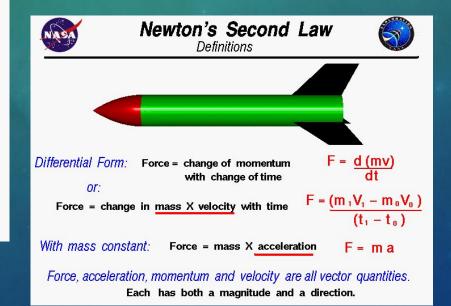


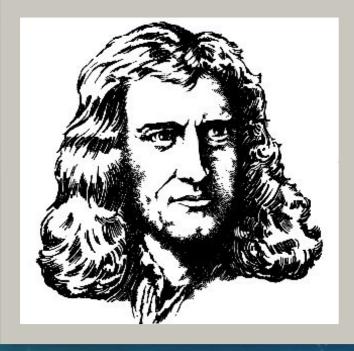
Newton's First Law

Glenn Research Center

"Every object persists in its state of rest or uniform motion in a straight line unless it is compelled to change that state by forces impressed on it."







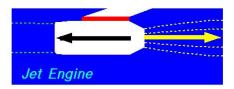


Newton's Third Law Applied to Jet Propulsion

Glenn Research Center

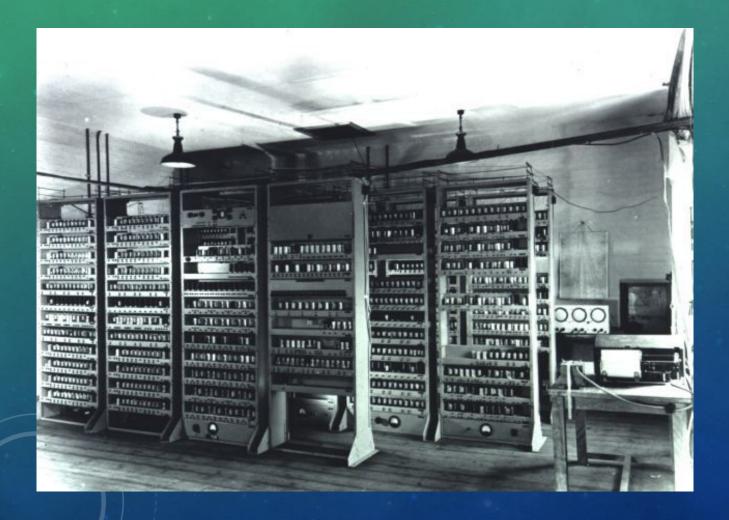
For every action, there is an equal and opposite re-action.

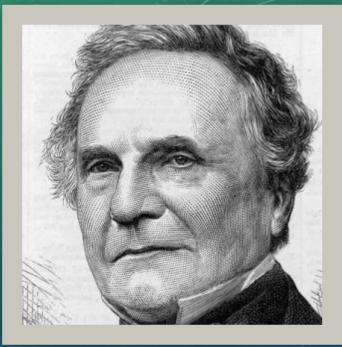
Exhaust Flow Pushed Rearward

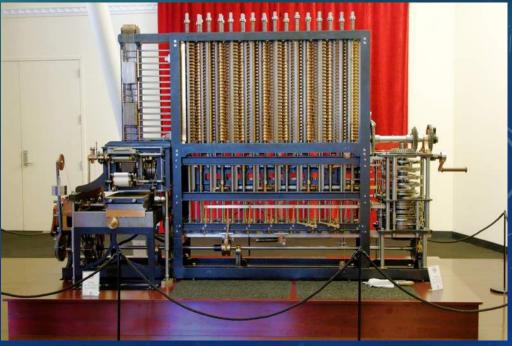


Engine and Aircraft Pushed Forward

PROGRAMMABLE COMPUTER



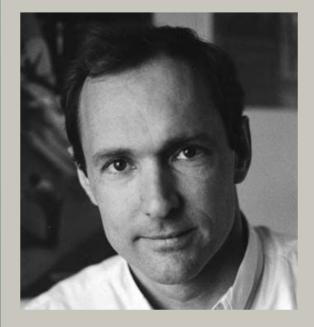




WORLD WIDE WEB





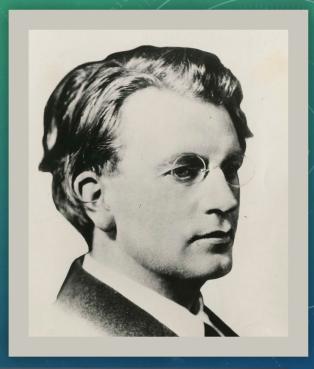




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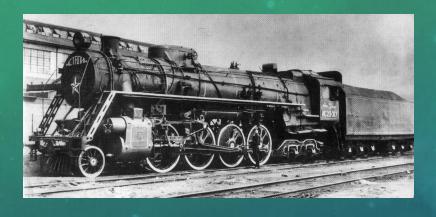
TELEVISION



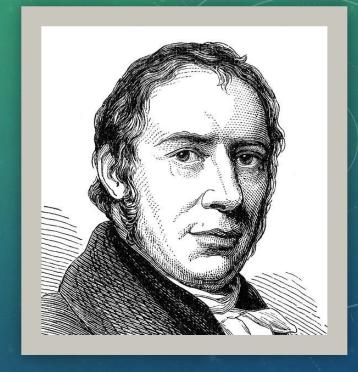




STEAM LOCOMOTIVE



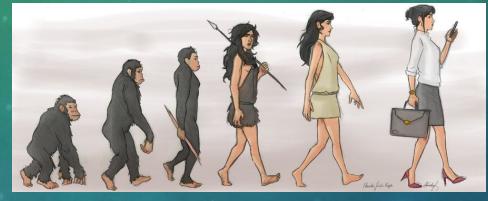


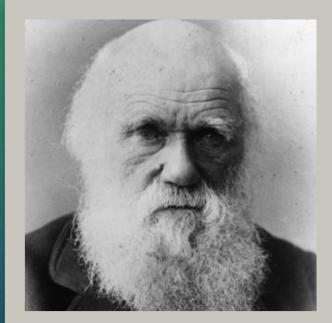


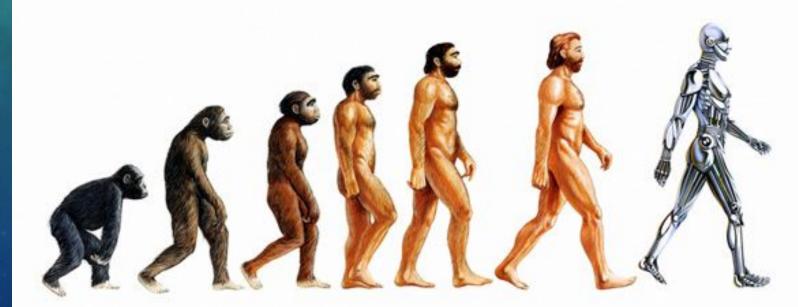


THEORY OF EVOLUTION







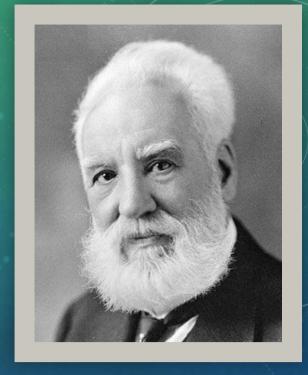


TELEPHONE











IMPORTANT ADVANCES MADE BY PEOPLE FROM THE UK

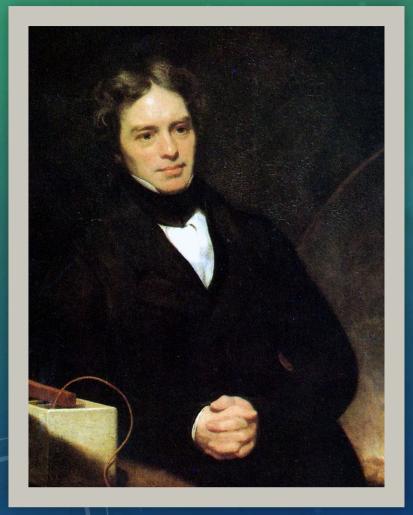
• There are many others major theories, discoveries and applications advanced by scientists from the Great Britain.

The discovery of hydrogen, by **Henry Cavendish (1731–1810).**



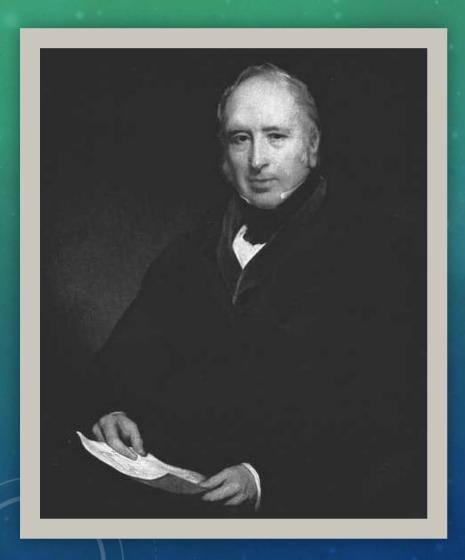


The electric motor, by **Michael Faraday (1771–1867)**, who largely made electricity viable for use in technology.



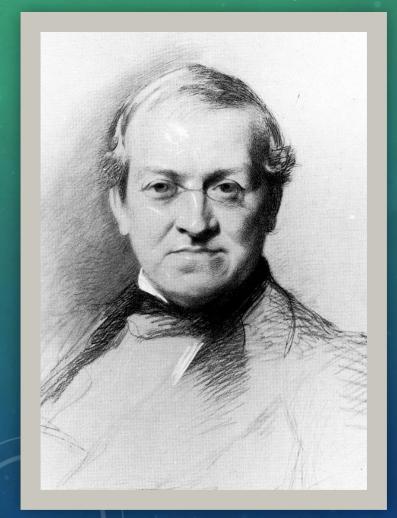


The theory of aerodynamics, by Sir George Cayley (1773–1857).





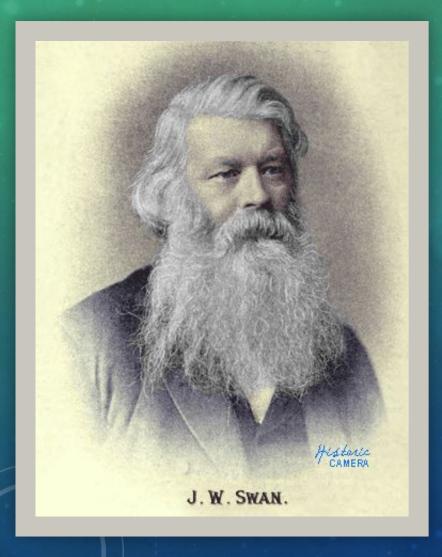
The first commercial electrical telegraph, co-invented by **Sir William Fothergill Cooke (1806–79)** and **Charles Wheatstone (1802–75)**.





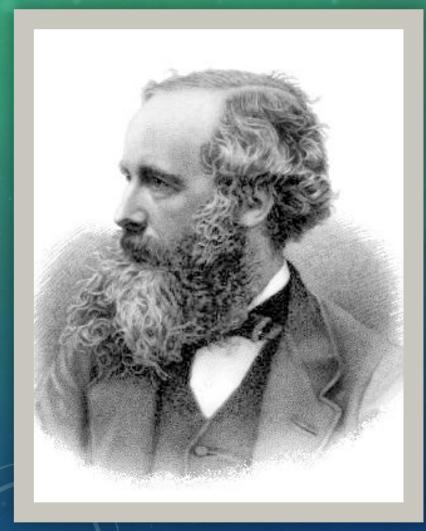


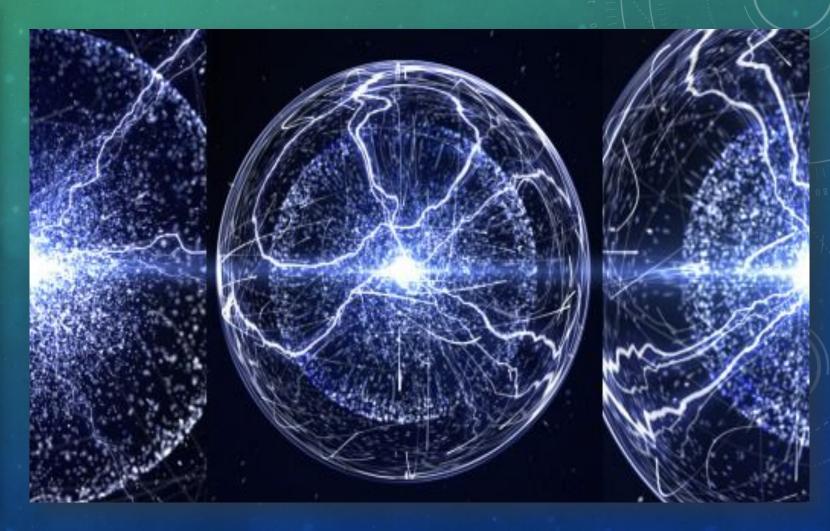
The invention of the incandescent light bulb, by **Joseph Swan (1826–1914)**.



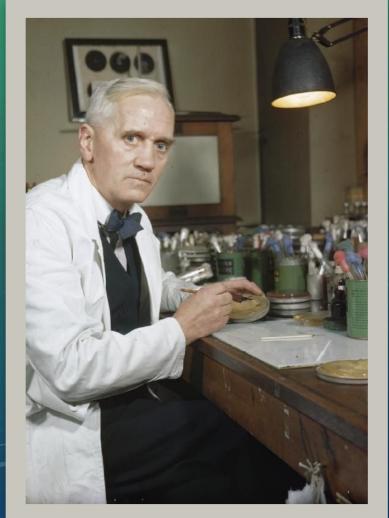


The unification of electromagnetism, by **James Clerk Maxwell** (1831–79).





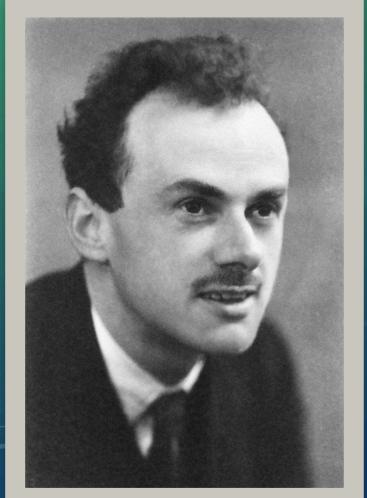
The discovery of penicillin, by biologist and pharmacologist, **Sir Alexander Fleming (1881–1955).**

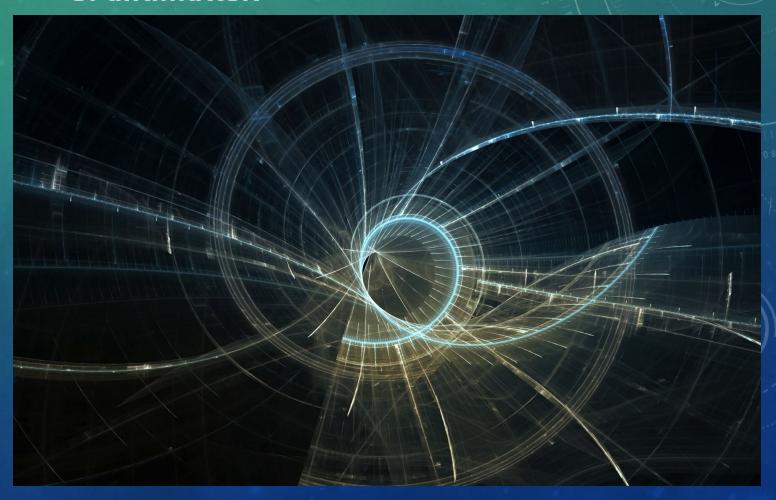




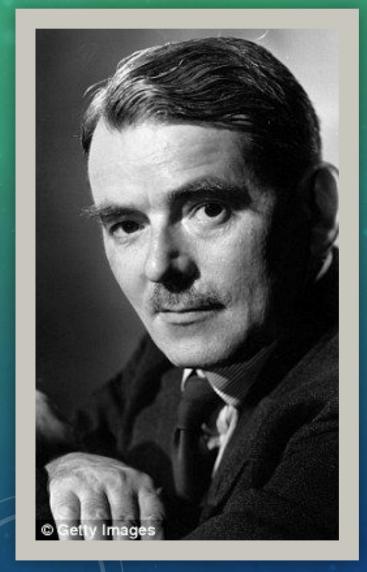
The first meaningful synthesis of quantum mechanics with special relativity by **Paul Dirac (1902–84)** in the equation named after him, and his subsequent prediction

of antimatter.



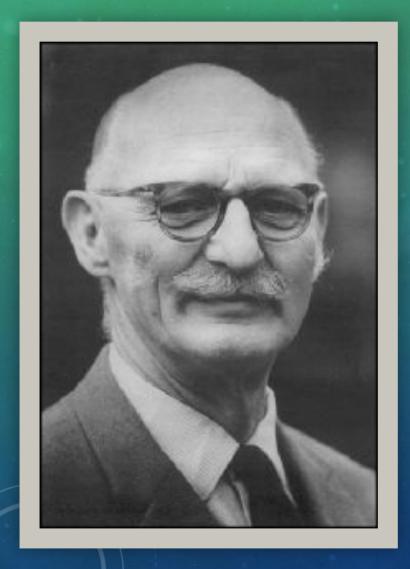


The invention of the jet engine, by **Frank Whittle (1907–96).**



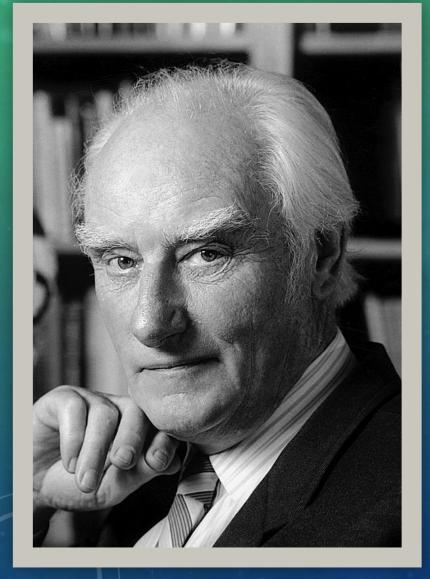


The invention of the hovercraft, by **Christopher Cockerell (1910–99).**



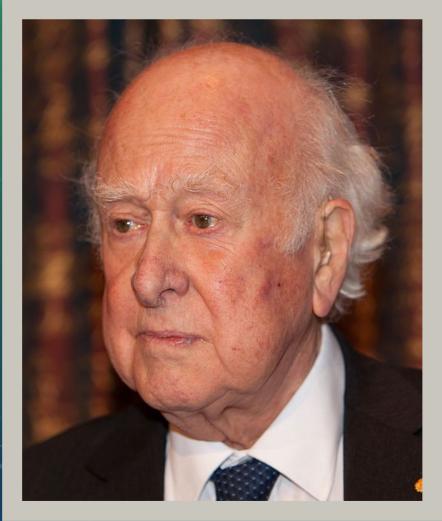


The structure of DNA, by **Francis Crick (1916–2004)** and others.



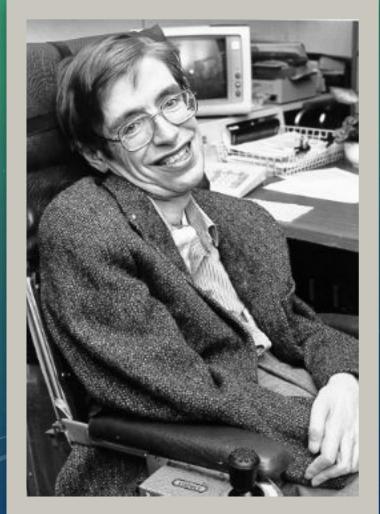


The theoretical breakthrough of the Higgs mechanism to explain electroweak symmetry breaking and why some particles have mass, by **Peter Higgs (1929-).**





Theories in cosmology, quantum gravity and black holes, by **Stephen Hawking** (1942–).





To sum-up, nowadays, The UK has the most productive research base amongst the G7 (Group of Seven) and other leading research nations. The UK accounts for 3.2% of global expenditure on research and development and has less than 1% of the world's population, but produces:

- 6.4% of global journal articles
- 11.6% citations
- 15.8% of the world's most highly-cited articles.