A Timeline of Technology

10 million	Humans make the first tools from stone, wood, antlers, and bones.
years ago.	
1-2 million	Humans discover fire.
years ago	
10,000 BCE	Earliest boats are constructed.
8000-9000	Beginnings of human settlements and agriculture.
BCE	
6000-7000	Hand-made bricks first used for construction in the Middle East.
BCE	
4000 BCE	Iron used for the first time in decorative ornaments.
3500 BCE	Humans invent the wheel.
c1700 BCE	Semites of the Mediterranean develop the alphabet.
0-1500 BCE	Ancient societies invent some of the first machines for moving water and agriculture.
1000 BCE	Iron Age begins: iron is widely used for making tools and weapons in many parts of the world.
c.150-100	First gear-driven, precision clockwork machine (the Antikythera mechanism) is developed.
BCE	
c.50 BCE	Roman engineer Vitruvius perfects the modern, vertical water wheel.
62 CE	Hero of Alexandria, a Greek scientist, pioneers steam power.
105 CE	Ts'ai Lun makes the first paper in China.
27 BCE-395 CE	Romans develop the first, basic concrete called pozzolana.
~600 CE	Windmills are invented in the Middle East.
700-900 CE	Chinese invented in the Middle East. Chinese invent gunpowder and fireworks.
1000 57 00	
1000 CE ??	Chinese develop eyeglasses by fixing lenses to frames that fit onto people's faces.
1450	Johannes Gutenberg pioneers the modern printing press, using rearrangeable metal letters called movable type.
1590	A Dutch spectacle maker named Zacharias Janssen makes the first compound microscope.
~1600	Galileo Galilei designs a basic thermometer.
16th century	Antoni van Leeuwenhoek and Robert Hooke independently develop microscopes.
1600	William Gilbert publishes his great book De Magnete describing how Earth behaves like a giant magnet. It's the beginning of the scientific study of magnete
1609	Galileo Galilei builds a practical telescope and makes new astronomical discoveries.
1643	Galileo's pupil Evangelista Torricelli builds the first mercury barometer for measuring air pressure.

Christiaan Huygens develops the pendulum clock (using Galileo's earlier discovery that a swinging pendulum can be used to keep time). 1708 Bart loamen Cristofori invents the piano. 1709 Gottfried Leibniz pioneers the binary number system now used in virtually all computers. 1712 Thomas Newcomen builds the first practical (but stationary) steam engine. 1718 Christiaan Huygens conceives the internal combustion engine, but never actually builds one. 1719 Ohn Campbell invents the sextant, an improved navigational device that enables sailors to measure latitude. 1719 John Harrison develops reliable chronometers (seafaring clocks) that allow sailors to measure longitude accurately for the first time. 1719 Wolfgang von Kempelen develops a mechanical speaking machine: the world's first speech synthesizer. 1718 French Brothers Joseph-Michel Montgolfier and Jacques-Etienne Montgolfier make the first practical hot-air balloon. 1718 French Brothers Joseph-Michel Montgolfier and Jacques-Etienne Montgolfier make the first practical hot-air balloon. 1720 Italian Alessandro Volta makes the first battery (known as a Voltaic pile). 1731 Joseph-Marie Jacquard invents the automated cloth-weaving loom. The punched cards it uses to store patterns help to inspire programmable computers. 1732 Henry and Sealy Fourdrinier develops the papermaking machine. 1733 Henry and Sealy Fourdrinier develops into an important chemical technique and uses it to identify a number of new elements. 1734 George Stephenson builds the first practical steam locomotive. 1735 Michael Faraday builds primitive electric generators and motors. 1736 William Sturgeon develops the first practical electric motor. 1736 Joseph Niepce makes the first modern photograph. 1737 Joseph Niepce makes the first modern photograph and printing photographs called Daguerreotypes. 1738 Finglishman Francis Petit-Smith and Swedish-American John Friesson independently develop propellers with baldes for ships. 1736 Charles Wheatstone and William Cooke, in England, an		
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1876 Alexander Graham Bell patents the telephone, though	ractical method of recording and playing back sound on metal foil.
1 1	gh the true ownership of the invention remains controversial even today.
1868 Christopher Latham Sholes invents the modern typew	

1921	John Larson develops the polygraph ("lie detector") machine.
1928	Thomas Midgley, Jr. invents coolant chemicals for air conditioners and refrigerators.
1928	The electric refrigerator is invented.
1930s	Peter Goldmark pioneers color television.
1930s	Laszlo and Georg Biro pioneer the modern ballpoint pen.
1930s	Maria Telkes creates the first solar-powered house.
1930s	Robert Watson Watt oversees the development of radar.
1931	Harold E. Edgerton invents the xenon flash lamp for high-speed photography.
1932	Arne Olander discovers the shape memory effect in a gold-cadmium alloy.
1938	Chester Carlson invents the principle of photocopying (xerography).
1938	Roy Plunkett accidentally invents a nonstick plastic coating called Teflon.
1939	Igor Sikorsky builds the first truly practical helicopter.
1940s	English physicists John Randall and Harry Boot develop a compact magnetron for use in airplane radar navigation systems.
1942	Enrico Fermi builds the first nuclear chain reactor at the University of Chicago.
1945	US government scientist Vannevar Bush proposes a kind of desk-sized memory store called Memex, which has some of the features later incorporated int electronic books and the World Wide Web (WWW).
1947	John Bardeen, Walter Brattain, and William Shockley invent the transistor, which allows electronic equipment to made much smaller and leads to the mod
1949	Bernard Silver and N. Joseph Woodland patent barcodes—striped patterns that are initially developed for marking products in grocery stores.
1950s	Charles Townes and Arthur Schawlow invent the maser (microwave laser). Gordon Gould coins the word "laser" and builds the first optical laser in 1958.
1950s	Stanford Ovshinksy develops various technologies that make renewable energy more practical, including practical solar cells and improved rechargeable l
1950s	Percy Spencer accidentally discovers how to cook with microwaves, inadvertently inventing the microwave oven.
1954	Indian physicist Narinder Kapany pioneers fiber optics.
1956	First commercial nuclear power is produced at Calder Hall, Cumbria, England.
1957	Soviet Union (Russia and her allies) launch the Sputnik space satellite.
1959	IBM and General Motors develop Design Augmented by Computers-1 (DAC-1), the first computer-aided design (CAD) system.
1963	Ivan Sutherland develops Sketchpad, one of the first computer-aided design programs.
1964	IBM helps to pioneer e-commerce with an airline ticket reservation system called SABRE.
1965	Frank Pantridge develops the portable defibrillator for treating cardiac arrest patients.
1966	Stephanie Kwolek patents a super-strong plastic called Kevlar.
1969	Long before computers become portable, Alan Kay imagines building an electronic book, which he nicknames the Dynabook.
1969	Willard S. Boyle and George E. Smith invent the CCD (charge-coupled device): the light-sensitive chip used in digital cameras, webcams, and other mode optical equipment.

1969	Astronauts walk on the Moon.
1960s	Douglas Engelbart develops the computer mouse.
1960s	James Russell invents compact discs.
1971	Electronic ink is pioneered by Nick Sheridon at Xerox PARC.
1971	Ted Hoff builds the first single-chip computer or microprocessor.
1973	Martin Cooper develops the first handheld cellphone (mobile phone).
1973	Robert Metcalfe figures out a simple way of linking computers together that he names Ethernet. Most computers hooked up to the Internet now use it.
1974	First grocery-store purchase of an item coded with a barcode.
1975	Whitfield Diffie and Martin Hellman invent public-key cryptography.
1975	Pico Electronics develops X-10 home automation system.
1976	Steve Wozniak and Steve Jobs launch the Apple I: one of the world's first personal home computers
1970s-1980s	Scientists including Charles Bennett, Paul Benioff, Richard Feynman, and David Deutsch sketch out how quantum computers might work.
1980s	Japanese electrical pioneer Akio Morita develops the Sony Walkman, the first truly portable player for recorded music.
1981	Stung by Apple's success, IBM releases its own affordable personal computer (PC).
1981	The Space Shuttle makes its maiden voyage.
1981	Patricia Bath develops laser eye surgery for removing cataracts.
1983	Compact discs (CDs) are launched as a new way to store music by the Sony and Philips corporations.
1989	Tim Berners-Lee invents the World Wide Web.
1991	Linus Torvalds creates the first version of Linux, a collaboratively written computer operating system.
1994	American-born mathematician John Daugman perfects the mathematics that make iris scanning systems possible.
1994	Israeli computer scientists Alon Cohen and Lior Haramaty invent VoIP for sending telephone calls over the Internet.
1995	Broadcast.com becomes one of the world's first online radio stations.
1995	Pierre Omidyar launches the eBay auction website.
1996	WRAL-HD broadcasts the first high-definition television (HDTV) signal in the United States.
1997	Electronics companies agree to make Wi-Fi a worldwide standard for wireless Internet.
2001	Apple revolutionizes music listening by unveiling its iPod MP3 music player.
2001	The Wikipedia online encyclopedia is founded by Larry Sanger and Jimmy Wales.
2001	Bram Cohen develops BitTorrent file-sharing.
2002	iRobot Corporation releases the first version of its Roomba® vacuum cleaning robot.
2004	Electronic voting plays a major part in a controversial US Presidential Election.
2004	Andre Geim and Konstantin Novoselov discover graphene.
2005	A pioneering low-cost laptop for developing countries called OLPC is announced by MIT computing pioneer Nicholas Negroponte.
2007	Amazon.com launches its Kindle electronic book (e-book) reader.
2007	Apple introduces a touchscreen cellphone called the iPhone.
2010	Apple releases its touchscreen tablet computer, the iPad.

Modified version of list compiled by science writer Chris Woodford