**Timeline: Combined Strands, Developmental/Innovation Decades**

**Color Coded Key for Event Years**

**Strand 1 – Toffler’s Three Waves**

**Strand 2 – Key technological advances and innovations for each decade**

**Strand 3 – The Nature of Work: Business and Corporate Philosophies**

**Strand 4 – Educational Theories of Learning and Instruction**

**Strand 5 – Nature of Society and Culture: What Key Events Determined the Thinking of the Decade?**

**Strand 6 – Technology with Military Applications**

First Wave – The Agricultural Age: Entire civilizations were tied to the land for survival, using trial and error to improve farming methods. This was the predominant preoccupation in human societies until approximately 1750 <http://jolt.law.harvard.edu/articles/pdf/v09/09HarvJLTech225.pdf>

Second Wave – The Industrial Age: This age began with the Industrial Revolution around 1750 in Europe. Changes modernized agriculture, manufacturing, mining, transportation, and technology practices of the day and moved many individuals from the country into more urban areas. Specific innovations included the mechanization of the textile industries, the development of iron-making techniques, and the increased use of refined coal. <http://www.nwlink.com/~donclark/history_knowledge/toffler.html>

**1901 – 1910**

**1900** - Booker T. Washington, founder of Alabama’s Tuskegee Institute, invited prosperous African-American business owners to meet and discuss the formation of a national organization. <http://www.spartacus.schoolnet.co.uk/USAbooker.htm>

**1901** - Francis W. Parker opened a progressive school that fostered a child-centered, progressive philosophy. <http://fcis.oise.utoronto.ca/~daniel_sc/assignment1/1901parker.html>

**1902** – Indiana Business College was founded and has developed as the most respected business school in Indiana. <http://www.academicinfo.net/online-schools/indiana-business-college>

**1903** - Orville and Wilbur Wright demonstrated the first heavier than air powered flight at Kitty Hawk, North Carolina. <http://www.centennialofflight.gov/essay/Wright_Bros/First_Powered_Flight/WR6.html>

**1904** - Christian Huelsmeyer received a patent in Germany for his invention called the 'telemobilescope', which was the precursor for the modern radar. <http://www.radarworld.org/huelsmeyer.html>

**1904** – The philosophy and morals of the “Ground Floor” concept as applied to Wall Street are publically discussed for the first time. <http://news.google.com/newspapers?id=o-I0AAAAIBAJ&sjid=MuEIAAAAIBAJ&pg=3233,2540785&dq=timeline+business+and+corporate+philosophies&hl=en>

**1904** - John Fleming perfected the Electronic Rectifier (Diode) or Fleming Valve, used to amplify a weak current and detect the spark-generated radio waves of the time. <http://www.ece.umd.edu/~taylor/Electrons3.htm>

**1905** – Alfred Binet published an article in which he described his work to identify students who may be mentally retarded, establishing the Binet-Simon Scale. <http://www.indiana.edu/~intell/binet.shtml>

**1905** - The Carnegie Foundation for the Advancement of Teaching opened its doors and proposes a standard for equating “seat time” (Class time) to high school credits known as the “Carnegie Unit”. <http://www.carnegiefoundation.org/about-us/about-carnegie>

**1906** - Roosevelt signed into law the FDA Food and Drugs Act which established the Food and Drug Administration. <http://www.fda.gov/AboutFDA/WhatWeDo/History/Milestones/ucm081229.htm>

**1906** - George Constant Washington invented a way to mass-produce instant coffee for storage and sale. The consumer appetite for the powdered beverage increased as supply was more readily available. This set the stage for the formation of businesses in America for decades to come. <http://inventors.about.com/od/cstartinventions/a/coffee.htm>

**1907** - Paul Natorp proposed social pedagogy, a German progressive education concept with an emphasis on community. Social pedagogy (sozial pädagogik) is sometimes translated as 'community education' or 'education for sociality'. <http://www.infed.org/biblio/b-socped.htm>

**1907** – Leo Baekeland invented the first synthetic (non-petroleum based) and named it Bakelite. This freed the plastics industry from its sole dependence on petroleum by-products as raw materials. <http://inventors.about.com/library/inventors/blbakerlite.htm>

**1908** – Elmer Sperry, who founded eight different companies and was responsible for over 350 patents, invented the electric gyrocompass for use in metal ships. His device, known as “Metal Mike”, was adopted by the United States Navy for use in American naval vessels in 1911 and it played a major role in naval strength during World War I. <http://inventors.about.com/library/inventors/blgyroscope.htm>

**1908** - The first geiger counter was a gas filled device invented by J W Geiger while working with Ernest Rutherford. Geiger’s device was the first real-time detector of radiation and ancestor of the scintillation crystal detectors that are used today. <http://www.xrfcorp.com/technology/radiation_detection.html>

**1909** - Percy E. Ludgate developed an analytical machine, or program-controlled mechanical calculator. <http://comjnl.oxfordjournals.org/content/14/3/317.abstract>

**1909** - Henry Ford sold the first Model T automobile, proving that his assembly line concept was viable as a business practice. <http://www.modelt.ca/background.html>

**1909** – Charles Herrold of San Jose, California, Started KQW, the first radio broadcast station. <http://www.charlesherrold.org/>

**1910** - Lee de Forest developed a vacuum tube (triode) that enabled the airing of programs from New York's Metropolitan Opera House and opened the possibilities of the radio broadcasting industry. <http://www.pbs.org/wgbh/aso/tryit/radio/earlyyears.html>

**1910** – Emma Goldman helped found the Ferrer Modern School. Named for Francisco Ferrer, it served as a school and institute for intellectuals and a tribute to him. <http://legacy.oise.utoronto.ca/research/edu20/moments/1910ferrerschool.html?cms_page=edu20/moments/1910ferrerschool.html>

**1911 – 1920**

**1911** – The first Montessori school opened in Tarrytown, New York, presenting the methods of Maria Montessori. <http://www.montessori-intl.org/about-montessori.html>

**1911** - The American Tobacco Company, established by the Duke family in 1890, grew to control the manufacture of a variety of tobacco products. The United States Supreme Court ordered the dissolution of the company in an anti-trust movement. <http://www.associatedcontent.com/article/404164/a_history_of_the_american_tobacco_company.html?cat=15>

**1911** – Charles Kettering invented the first electronic ignition for automobiles. <http://inventors.about.com/library/inventors/blignition.htm>

**1912** - Australian inventor Lancelot Eldin De La Mole patented plans for the first armored, self propelled tank. <http://en.allexperts.com/q/Military-History-669/Tank-inventor.htm>

**1912** - On its maiden voyage, the Titanic, the world's largest ship, sank killing 1500 of the 2200 passengers and crew aboard. <http://www.encyclopedia-titanica.org/>

**1912** - Dr. Wilhelm Louis Stern was responsible for the invention of the theory of intelligence quotient (I.Q.) <http://www.suite101.com/content/the-origins-of-iq-and-the-sat-a300748>

**1913** - Edward Lee Thorndike published his book, *Educational Psychology: The Psychology of Learning,* which described the theory that human learning involves habit formation, or connections, between stimuli and responses. <http://www.muskingum.edu/~psych/psycweb/history/thorndike.htm>

**1913** – Taft’s era of bungled foreign diplomacy ended. <http://www.examiner.com/american-history-in-national/the-era-of-bungled-diplomacy-1909-1913>

**1913** – Thomas Edison publicly displayed the first talking motion picture in the form of the Kinetophone. This device attempted to combine the action of a film with the sound of a phonograph cylinder and is thought to be the precursor to “talkies” (motion pictures with sound). <http://inventors.about.com/library/inventors/bledison_timeline.htm>

**1914** – Garret Morgan invented the first gas mask as a defense against mustard gas and other chemical agents. <http://inventors.about.com/od/mstartinventors/a/Garrett_Morgan.htm>

**1914 – 1918** – World War I saw the use of film as training for troops and propaganda for the war effort. <http://www.realmilitaryvideos.com/wwi/wwi-basic-training-at-camp-sherman-ohio/>

**1914** - Woods Directory was published and offered African- Americans an opportunity to advertise their businesses and services. <http://nutrias.org/exhibits/black96.htm>

**1914** - The Federal Reserve Act became effective in August, 1914, and proved of invaluable during the period of readjustment of American business to meet war conditions. <http://books.google.com/books?id=HswQAAAAYAAJ&pg=PA260&sig=Kuf6Szsrwo5h5g1vcxMNRwE4ZIo&hl=en#v=onepage&q&f=false>

**1915** - Paul Langévin, using the piezoelectric properties of quartz, developed the first sonar device, calling it an "echo location to detect submarines". <http://inventors.about.com/od/sstartinventions/a/sonar_history.htm>

**1915** –Machine guns of the German Fokker warplane are synchronized with the propeller, thus making them accessible to the pilot during flight and more accurate by using traditional mounted sights. <http://www.centennialofflight.gov/essay/Air_Power/Fokker/AP7.htm>

**1915** - Pyrex was co-invented by Eugene Sullivan and William Taylor in New York City. It was introduced to the American public in the same year as clear ovenware by the Corning Glass Works Corporation. <http://www.pyrexlove.com/history-of-collectible-pyrex/>

**1916** - Dr. Lewis Madison Terman revised and released a Stanford version of the Binet-Simon test scale. <http://www.suite101.com/content/the-origins-of-iq-and-the-sat-a300748>

**1917** – The United States entered World War I. <http://www.thenagain.info/webchron/world/uswwi.html>

**1917**-The modern zipper was patented by Gideon Sunback. Sunback’s device, which he called a “Separable Fastener”, was not called the “zipper” until adopted by B.F.Goodrich as a fastener in rubber galoshes in the late ‘20s and early ‘30s. <http://inventors.about.com/library/weekly/aa082497.htm>

1918 - Congress passed the Webb-Pomerene export act, which gave American business men an opportunity to enter into combinations for the purpose of avoiding competition. <http://encyclopedia2.thefreedictionary.com/Webb-Pomerene+Act>

**1919** – W. H. Eccles and F. W. Jordan develop the first flip-flop circuit design, making modern electronics possible. These circuits had two stable states and ccould store information and change states to respond to two inputs and send to two outputs. <http://trillian.randomstuff.org.uk/~stephen/history/timeline-INVENT.html>

**1920** – Earle Dichson invented the modern band-aid simplifying the treatment of small wounds and lowering infection rates of patients with wounds. <http://inventors.about.com/od/bstartinventions/a/bandaid.htm>

**1920** – The merger of the Bethleham and Youngston steel companies was barred by justice department anti-trust prosecutors in an effort to avoid the formation of a monopoly in the steel industry. <http://select.nytimes.com/gst/abstract.html?res=F00A15FF3B5B167B93C3A9178BD95F408585F9>

**1921 – 1930**

**1921** – John Thompson invented the first “Tommy” gun. <http://inventors.about.com/od/militaryhistoryinventions/a/firearms.htm>

**1921** – Louis Terman began the ongoing (still progressing) longitudinal study of “intellectually superior” children at Stanford University. <http://www.newworldencyclopedia.org/entry/Lewis_Terman>

**1921** – The “Lie Detector” (polygraph machine) was developed by John Larson. <http://inventors.about.com/od/fstartinventions/a/forensic_2.htm>

**1922** – Dr. Frederick Banting discovered insulin as a treatment for diabetes. <http://inventors.about.com/library/inventors/bldiabetes.htm>

**1923** - The Goodyear- Zeppelin Corporation, a German- American business alliance, was formed as a subsidiary of Goodyear Tire and Rubber, and assumed ownership of all the zeppelin patents. <http://www.goodyear.com/corporate/history/history_byyear.html>

**1924** – Max Wertheimer introduced Gestalt Theory, which emphasizes learning through insight and the grasping of an entire concept. <http://gestalttheory.net/archive/wert1.html>

**1925** – John Scopes, a high school biology teacher, was charged with teaching evolution (evolution vs creationism), ending in Scopes’ conviction. <http://www.law.umkc.edu/faculty/projects/ftrials/scopes/scopes.htm>

**1926/1926** – Robert Goddard invented the first successful liquid-fueled rockets. <http://inventors.about.com/od/gstartinventors/a/Robert_Goddard.htm>

**1926** - Dr. Carter G. Woodson began Negro History Week, an initiative to bring attention to the contributions of [black](http://www.google.com/search?hl=en&tbs=tl:1,tl_num:100&q=black&sa=X&ei=OCZPTdXwNM_TgQeHoJn8Dw&ved=0CCcQ0AEwAA) Americans throughout history. <http://blog.pfaw.org/content/african-american-history-awareness-month-chance-prove>

**1927** – Philo Farnsworth invented the first complete electronic television system with the help of his brother-in-law, a professional glass blower. <http://inventors.about.com/library/inventors/blfarnsworth.htm>

**1928** – Alexander Fleming discovered penicillin. The discovery was made by Fleming when he observed the accidental contamination of a culture plate of Staphylococcus by some blue green mold, later identified as common bread mold, or Penicillium Notatum. <http://inventors.about.com/od/pstartinventions/a/Penicillin.htm>

**1928** – The Federal Trade Commission announces the widening (increasing) of the rules of self-governance of American Business abroad. <http://select.nytimes.com/gst/abstract.html?res=F40D13FA395A127A93C2A81789D95F4C8285F9>

**1928** – Edward Thorndike published his classic study, *Adult Learning*, in which he stated that the ability to learn did not decline until age 35, and then it declined only 1 percent per year. This was in direct contradiction of the belief of the time that “you can't teach an old dog new tricks.” <http://www.nwlink.com/~donclark/hrd/history/thorndike.html>

**1929** – Jean Piaget published, *The Child's Conception of the World*, which introduced his theory of cognitive development. <http://www.piaget.org/>

**1929** - The Great Depression began with the stock market crash, devastating the American economy. <http://www.todaysteacher.com/TheGreatDepressionWebQuest/BriefOverview.htm>

**1930** – The jet engine was invented by Frank Whittle and Hans von Ohain. <http://inventors.about.com/library/inventors/bljetengine.htm>

**1930** – Richard Drew patented scotch tape for the 3M Corporation. This is after he had developed masking tape for the same company several years earlier. <http://inventors.about.com/od/sstartinventions/a/Scotch_Tape.htm>

**1931 - 1940**

**1931** - Alvarez vs. the Board of Trustees of the Lemon Grove (California) School District became the first successful school desegregation court case in the United States, when the local court forbade the school district from placing Mexican-American children in separate schools. <http://www.sandiegohistory.org/journal/86spring/lemongrove.htm>

**1931** – The first working electron microscope was developed by Max Knott and Ernst Ruska. The microscope can view items as small as individual atoms, about ten angstroms across. <http://inventors.about.com/od/mstartinventions/a/microscope_2.htm>

**1932** – President Franklin D. Roosevelt initiated his “New Deal” to kick-start economic recovery. <http://www.pbs.org/wgbh/amex/presidents/32_f_roosevelt/f_roosevelt_politics.html>

**1932** - Elmer Doolin of San Antonio, Texas and Herman W. Lay of Nashville, Tennessee founded the Frito-Lay company with the philosophy, "Provide the customer with a product of the highest quality and value; sell it for a fair profit; and make service a fundamental part of doing business." <http://www.reallynatural.com/archives/cheetos_natural_white_cheddar.php>

**1934** - Hubert Rutland espoused a business philosophy (based on the efficiency of every department independently and as a whole) that explains the success of his clothing company and is soon picked up by many other businesses. <http://news.google.com/newspapers?id=nkRPAAAAIBAJ&sjid=1k0DAAAAIBAJ&pg=7128,561124&dq=business+philosophies+timeline&hl=en>

**1935** – Congress authorized the Works Progress Administration which put the unemployed to work completing public projects. <http://www.eh.net/encyclopedia/?article=couch.works.progress.administration>

**1935** – Radar was patented by Robert Watson-Watt. <http://inventors.about.com/library/inventors/blradar.htm>

**1936** – President Roosevelt organized a national meeting of businessmen to work out difficulties of the New Deal. <http://select.nytimes.com/gst/abstract.html?res=F50715FB3E5E167B93C1A9178ED85F428385F9>

**1937** – The first working model of a jet engine was successfully built and operated. <http://inventors.about.com/library/inventors/bljetengine.htm>

**1937** - The Carnegie Foundation the introduced Graduate Record Examinations (GRE). <http://findarticles.com/p/articles/mi_gx5202/is_1991/ai_n19122000/>

**1937** - The photocopier was developed by Chester Carlson. <http://inventors.about.com/od/xyzstartinventions/a/xerox.htm>

**1938** – The first working ballpoint pen was developed by Ladislo Biro. One can only hope that Mr. Biro patented his invention before introducing it to the business-oriented public. <http://inventors.about.com/library/weekly/aa101697.htm>

**1938** – Tetrafluoroethylene polymers, also known as Teflon, were invented by Roy Plunkett. The material was not use with cookware until a reliable method to bond it to the metal surfaces was developed over twenty years later. <http://inventors.about.com/library/inventors/blteflon.htm>

**1938** – President Roosevelt called for a new national conference of “small businesses” to work out difficulties in the administration’s New Deal. <http://select.nytimes.com/gst/abstract.html?res=F20F1EFE355A157A93C3AB178AD85F4C8385F9>

**1938** – The first working turboprop engine was invented. <http://inventors.about.com/od/jstartinventions/ss/jet_engine_2.htm>

**1939** – David Wechsler developed the Wechsler Adult Intelligence Scale which introduced the concept of the “deviation IQ”. <http://www.newworldencyclopedia.org/entry/Info:Main_Page>

**1939** – The first helicopter was successfully developed by Igor Sikorshy. <http://inventors.about.com/od/hstartinventions/a/helicopter.htm>

**1939** – Professor Frank Cyr of Columbia University’s Teacher College organized a national conference on student transportation, resulting in the establishment of standards for school buses across the nation. <http://www.columbia.edu/cu/record/archives/vol21/vol21_iss1/record2101.36.html>

**1941 - 1950**

**1941** – The United States entered World War II after being attacked by Japanese forces at Pearl Harbor. <http://www.searchbeat.com/worldwar.htm>

**1942** – American business changed its focus from victory at the bank to victory on the battlefield as it began a mobilization against fascism. <http://news.google.com/newspapers?id=ZthQAAAAIBAJ&sjid=ac8MAAAAIBAJ&pg=4741,3613487&dq=business+philosophies+timeline&hl=en>

**1941** – The Z3, built by Konrad Zuse in his parent’s living room, was the first software-controlled computer and proved to be the model form many generations of computers to follow. <http://inventors.about.com/library/weekly/aa050298.htm>

**1942** - John Atanasoff and Clifford Berry built the first electronic digital computer. <http://inventors.about.com/library/weekly/aa050898.htm>

**1943** – Jacques Cousteau and Emile Gagnan invented the aqualung. <http://inventors.about.com/od/cstartinventors/a/Scuba.htm>

**1944** – The G.I. Bill was signed into law by FDR. <http://www.gibill.va.gov/GI_Bill_Info/history.htm>

**1944** – The post-war business council announced that the recovery of the country would be on the shoulders of the American business as it organized the transition from war time to peace time footing. <http://pqasb.pqarchiver.com/latimes/access/411383631.html?dids=411383631:411383631&FMT=ABS&FMTS=ABS:AI&type=historic&date=Jan+18%2C+1944&author=&pub=Los+Angeles+Times&desc=Free+Business+Council+Urged+for+Postwar+Period&pqatl=google>

**1945** – The atomic bomb was invented and used to bring an end to World War II. <http://inventors.about.com/od/astartinventions/a/atomic_bomb.htm>

**1945** - World War II ended with victory over Japan. <http://www.searchbeat.com/worldwar.htm>

**1946** – The Computer Age began with the activation of ENIAC (Electronic Numerical Integrator and Computer), the first vacuum tube computer. <http://www.seas.upenn.edu/about-seas/eniac/>

**1947** - Full Membership for Women attending Cambridge was finally realized after fifty years. This opened the floodgates for higher learning to the acceptance of female students in many disciplines.  
<http://www.admin.cam.ac.uk/news/press/factsheets/women2.html>

**1947** – The first transistor is invented, thus allowing electronics to become smaller in size and more powerful in capabilities. <http://inventors.about.com/library/weekly/aa061698.htm>

**1949** - Ralph W. Tyler published his book, *Basic Principles of Curriculum and Instruction*, which helped shape theories of curriculum. <http://elibrary.sd71.bc.ca/teacher_resources/pedogogical_links/principles_curr_instruction.htm>

**1950** – The Truman administration was seen as a business philosophy based on government by threat, especially concerning minority groups. <http://select.nytimes.com/gst/abstract.html?res=F20B16FC3E59157B93CBA8178FD85F448585F9>

**1951 – 1960**

**1951** – The first video tape recorder was invented by Charles Ginsburg. <http://inventors.about.com/library/inventors/blvideo.htm>

**1952** – More friendly and concerned loan services began reflecting a different philosophy in lending money. <http://select.nytimes.com/gst/abstract.html?res=F20B16FC3E59157B93CBA8178FD85F448585F9>

**1953** - The black box (flight recorder) was perfected by David Warren. <http://inventors.about.com/library/inventors/blblackbox.htm>

**1953** – B.F. Skinner published, *Science and Human Behavior*, which introduced operant conditioning. <http://www.bfskinner.org/BFSkinner/Home.html>

**1954** – Optic Fiber was invented by Harold Hopkins and Abraham Van Heel. <http://inventors.about.com/library/weekly/aa980407.htm>

**1954** – Former President Truman attacked the administration on foreign and domestic policies concerning employment of American workers. <http://select.nytimes.com/gst/abstract.html?res=F70914FC3A5C167B93C5A8178BD95F408585F9>

**1954** – The Supreme Court case of Brown vs Board of Education established that separate educational facilities are inherently unequal. <http://www.nationalcenter.org/brown.html>

**1955** - Rosa Parks refused to give up her seat on the bus to a Caucasian passenger and was subsequently arrested and fined, resulting in the Montgomery bus boycott. <http://www.achievement.org/autodoc/page/par0bio-1>

**1956** – Benjamin bloom introduced his taxonomy of behavioral objectives with three overlapping domains of cognitive, affective, and psychomotor. <http://hs.riverdale.k12.or.us/~dthompso/exhibition/blooms.htm>

**1956** - The U.S. Supreme Court ruled in Browder vs Gale that segregated seating on buses unconstitutional. <http://www.achievement.org/autodoc/page/par0bio-1>

**1956** – Secretary of State Ezra Benson stated in a speech to the Grain and Feed Dealers National Association that the Farm Bill was unacceptable and that President Eisenhower should keep government out of the grain storage business. This was a popular thought among businessmen of all walks concerning the interference of government with business. <http://news.google.com/newspapers?id=p_ctAAAAIBAJ&sjid=-80FAAAAIBAJ&pg=2791,3242776&dq=benson&hl=en>

Third Wave – The Information Age: This age may have begun with the advent of the telegraph, but most researchers attribute the October 4th launching of Sputnik in 1957 as the trigger action that began a much stronger use of computers in human society. http://space.about.com/cs/history/a/sputnik1.htm

**1957** – The Soviet Union launched Sputnik, the first artificial satellite to orbit our planet. <http://history.nasa.gov/sputnik/>

**1958** – Common thought with many was that it would be "good Republican philosophy" to reduce taxes if the recession affecting businesses across the country continued. <http://news.google.com/newspapers?id=c2snAAAAIBAJ&sjid=0dcEAAAAIBAJ&pg=2233,3131247&dq=business+philosophies+timeline&hl=en>

**1958** – The laser was invented by Gordon Gould. <http://inventors.about.com/od/lstartinventions/a/laser.htm>

**1958** – Jack Kirby and Robert Noyce invented the integrated circuit. <http://inventors.about.com/od/istartinventions/a/intergrated_circuit.htm>

**1959** – Jack Kirby and Robert Noyce both invented the microchip. <http://inventors.about.com/od/istartinventions/a/intergrated_circuit.htm>

**1961 – 1970**

**1962** – Lev Vygotsky’s, *Thought and Language*, was published in English, introducing his social constructivist theories to the western world. <http://www.newfoundations.com/GALLERY/Vygotsky.html>

**1962** – The first computer video game, Spacewar, was invented by Steve Russell. <http://inventors.about.com/library/weekly/aa090198.htm>

**1962** – The business philosophy of DuVeaux Television and Appliances in Toledo, Ohio, sets a new standard for business with their slogan, “We beat them all on service”. <http://news.google.com/newspapers?id=RLxOAAAAIBAJ&sjid=MgEEAAAAIBAJ&pg=7234,74417&dq=business+philosophies+timeline&hl=en>

**1962** – In his speech to Yale, President Kennedy makes his philosophy clear that he wants government and business to work together. <http://news.google.com/newspapers?id=rDwiAAAAIBAJ&sjid=-aoFAAAAIBAJ&pg=2801,6439590&dq=business+philosophies+timeline&hl=en>

**1963** - President John F. Kennedy is assassinated and Lyndon B. Johnson becomes president. <http://www.whitehouse.gov/about/presidents/johnfkennedy/>

**1963** - The term “learning disabilities” was first used by Samuel Kirk to describe children with perceptual disorders. <http://www.nytimes.com/1996/07/28/us/samuel-a-kirk-92-pioneer-of-special-education-field.html>

**1964** - The computer language BASIC (Beginner’s All Purpose Symbolic Instruction Code) was invented by John Kenemy and Tom Kurtz. <http://inventors.about.com/library/inventors/blbasic.htm>

**1965** - James Russell invented the compact disk. <http://inventors.about.com/od/qrstartinventors/a/CD.htm>

**1965** – Stephanie Kwolek invented Kevlar, the material used in bullet-proof vests. <http://inventors.about.com/library/inventors/blkevlar.htm>

**1965** – President Johnson began his “War on Poverty” and at the same time escalated our involvement in Viet Nam. <http://www.whitehouse.gov/about/presidents/lyndonjohnson/>

**1966** - Jerome Bruner's*, Toward a Theory of Instruction* was published, helping to popularize the cognitive learning theory as an alternative to behaviorism. <http://www.mybrowserbar.com/cgi/errors.cgi?r=n&q=http%3A%2F%2Fau.geocities.com%2Fvanunoo%2FHumannature%2Fbruner.html&ccv=130&cnid=867034&ISN=F32FB03FD6314D009A6C3AEB8D6D3E59&type=dns&ct=8>

**1967** – The first hand-held calculator was invented. It could perform the four basic math functions, had no memory, and had to remain close to a power source (outlet) for continuous operation. <http://inventors.about.com/library/inventors/blcalculator.htm>

**1968** – Douglas Engelbart invented the computer mouse. The prototype looked more like a wooden box with a large ball inside, connected to electronics by several cables. <http://inventors.about.com/library/weekly/aa081898.htm>

**1968** – Presidential candidate Richard Nixon vowed to end the “Heavy handed bureaucratic regularly schemes” practiced by members of the Johnson administration. Nixon also stated that he rejected the philosophy that the government could make decisions for the investor better than the investor himself. <http://news.google.com/newspapers?id=NZwgAAAAIBAJ&sjid=D2gFAAAAIBAJ&pg=1093,3979508&dq=business+philosophies+timeline&hl=en>

**1969** - Herbert R. Kohl's book, *The Open Classroom,* promoted open education, which emphasized active, holistic learning in student-centered classrooms. <http://www.harpercollins.com/authors/5411/Herbert_R_Kohl/index.aspx>

**1969** – The first internet, the ARPANET (Advanced Research Projects Agency Net), was invented for exclusive use by the American Military. <http://inventors.about.com/library/weekly/aa091598.htm>

**1970** – Alan Shugart invented the computer floppy disk. The first disk was the size of a phonograph record and was encased in a stiff paper jacket. <http://inventors.about.com/od/computersandinternet/a/FloppyDisk.htm>

**1970** – Jean Piaget published *The Science of Education*, presenting his discovery-based teaching approaches of the Learning Cycle Model. <http://www.utm.edu/departments/cece/cesme/PSAM/PSAM/psam4.pdf>

**1971 - 1980**

**1971** – Michael Hart, founder of the Guttenberg Project for digitizing traditional educational materials, invents the e-Book (electronic book). <http://pge.rastko.net/about/marie_lebert>

**1971** - Jerome S. Bruner published *The Relevance of Education,* which suggested that teachers are responsible for student learning. <http://www.infed.org/thinkers/bruner.htm>

**1971** – James Ferguson invented the first liquid crystal display (LCD). <http://inventors.about.com/od/lstartinventions/a/LCD.htm>

**1971** – Faggin, Hoff, and Mazor invented the first microprocessor. <http://inventors.about.com/od/mstartinventions/a/microprocessor.htm>

**1972** - The Word Processor, Wordstar, was invented by Seymour Rubenstein and Rob Barnaby. <http://inventors.about.com/od/wstartinventions/a/WordStar.htm>

**1972** – President Nixon is implicated in the Watergate break-ins, largely negating all that he has said concerning honesty in politics and big business. <http://watergate.info/>

**1973** – Jerome S. Brunner framed the concept of Discovery Learning, in which learning is cognitive growth through interaction with elements of the environment. <http://www.infed.org/thinkers/bruner.htm>

**1973** – U.S. involvement in Viet Nam ended, with 58,000 military personnel killed in action during the publically unpopular action. <http://25thaviation.org/Facts/#vietnam_war_casualties>

**1973** - Robert Metcalfe, in conjunction with the Xerox corporation, invented the Ethernet (local computer network). <http://inventors.about.com/library/weekly/aa111598.htm>

**1974** – President Nixon resigned the office of the presidency, making Gerald Ford the 38th American president. <http://watergate.info/>

**1974** – Robert Gagne forwarded the concept that learning is influenced by instructional conditions I the learning environment. <http://www.slideshare.net/CPappasOnline/robert-gagnes-instruction-design-model-the-nine-events-of-instructions>

**1975** - The National Association of Bilingual Education was founded. This was one of the major indicators for the reversal of the strong nationalist sentiments developed during World War II. <http://www.nabe.org/>

**1975** – Newsweek published the cover story, “Why Johnny Can’t Write,” giving strength to the back-to-basics-movement in education. <http://www.enotes.com/1970-education-american-decades/literacy-crisis>

**1975** – The first laserjet printer was invented. <http://inventors.about.com/library/inventors/blcomputer_printers.htm>

**1976** – The ink-jet printer was invented. <http://inventors.about.com/library/inventors/blcomputer_printers.htm>

**1976** – Many dubious business practices and philosophies of then modern day business were reflected in the television series, “Executive Suite”. <http://www.imdb.com/title/tt0073988/>

**1977** – OMD was founded asa software development group within Modern Business Systems, Inc., espousing a business philosophy including total automation and business cohesiveness. <http://www.omdcorp.com/about.htm>

**1979** – Seymour Cray invented the Cray Supercomputer. <http://inventors.about.com/od/cstartinventors/a/supercomputer.htm>

**1980** – President Jimmy Carter opposed the continued Reagan philosophy of getting "government off the back" of business and the public still being practiced by the strengthened Republicans. <http://wiki.answers.com/Q/Who_controlled_the_house_and_senate_during_the_Reagan_years>

**1981 - 1990**

**1981**- Bill Gates perfects MS-DOS for IBM and its personal computers. <http://inventors.about.com/library/weekly/aa031599.htm>

**1981** – IBM marketed its first PC, the IBM 5100. <http://inventors.about.com/library/weekly/aa031599.htm>

**1981** - The first GUI-centric computer (graphic digital interface unit), the Xerox 8010 Star information System, was released for public consumption. <http://toastytech.com/guis/star.html>

**1981** – The momentum of the growing homeschooling movement was increased by *Teach Your Own: A Hopeful Path for Education*, by John Holt. <http://www.holtgws.com/teachyourown.html>

**1982** – Madeline C. Hunter’s direct instruction teaching model was introduced in her book, *Mastery Teaching.* <http://www.amazon.com/Madeline-Hunters-Mastery-Teaching-Instructional/dp/076193930X>

**1983** – A Nation at Risk, a report by the National Commission on Excellence in Education, made a strong case for reform in public education and teacher training. <http://www2.ed.gov/pubs/NatAtRisk/risk.html>

**1983** – The Apple Lisa, the first personal computer to use GUI, was invented. <http://inventors.about.com/library/weekly/aa043099.htm>

**1984** – Steve Jobs invented and marketed the first MacIntosh computer. <http://inventors.about.com/library/weekly/aa051599.htm>

**1984** - Conservatives held control over Congress and business, with Reagan - era philosophy apparent everywhere. <http://millyardcommunications.com/index.php?src=news&srctype=detail&category=News&refno=1170>

**1985** – Microsoft introduced the first Windows program (Windows 1.0), originally called Interface Manager. <http://inventors.about.com/od/mstartinventions/a/Windows.htm>

**1985** – Eastern airlines stated that “significant changes” in its business philosophy were needed to continue to be solvent in modern business. <http://news.google.com/newspapers?id=ne8vAAAAIBAJ&sjid=2fsDAAAAIBAJ&pg=3485,341135&dq=business+philosophies+timeline&hl=en>

**1986** - Christa McAuliffe was chosen by NASA from among more than 11,000 applicants to be the first teacher-astronaut. <http://www.framingham.com/history/profiles/christa.htm>

**1986** – Gregory Gallico invented synthetic skin. <http://www.liebertonline.com/doi/abs/10.1089/ten.1995.1.231?journalCode=ten>

**1988** – Chritian Andreas invented Doppler radar. <http://inventors.about.com/library/inventors/blradar.htm>

**1989** - The University of Phoenix was the first to offer online bachelors and master’s degrees with their "online campus”.<http://www.phoenix.edu/about_us/about_university_of_phoenix/history.html>

**1990** – The World Wide Web (WWW), Hypertext Transfer Protocol (HTTP), and Hypertext Markup Language (HTML) were all perfected by Tim Berners-Lee. <http://inventors.about.com/od/bstartinventors/p/TimBernersLee.htm>

**Fourth Wave** – Global Community: This era of world-wide communication began around 1990 with the work of Tim Berners-Lee and his development of HTML documents and the first web browser. <http://www.worldtrans.org/whole/fourthwave.html>

**1991 - 2000**

**1991** – Minnesota passed the first Charter School law. <http://www.uscharterschools.org/pub/uscs_docs/o/history.htm>

**1992** - The Smart Pill, medication that can time –control its own delivery, was patented by Jerome Schentag and David D’Andrea. <http://inventors.about.com/od/sstartinventions/a/smart_pill.htm>

**1992** – Ken Heller, president of Nutech Environmental Corp, stated that women reflect a different business philosophy that will carry them through to the next century. <http://nl.newsbank.com/nl-search/we/Archives?p_product=RM&p_theme=rm&p_action=search&p_maxdocs=200&p_topdoc=1&p_text_direct-0=0EB4DB8D21D96F2F&p_field_direct-0=document_id&p_perpage=10&p_sort=YMD_date:D&s_trackval=GooglePM>

**1993** – Daniel Brier of the United States Hosiery Company states that his business philosophy has to do with treating the families of workers well to have the best work force available. <http://nl.newsbank.com/nl-search/we/Archives?p_product=CO&s_site=charlotte&p_multi=CO&p_theme=realcities&p_action=search&p_maxdocs=200&p_topdoc=1&p_text_direct-0=0EB6CB5501613528&p_field_direct-0=document_id&p_perpage=10&p_sort=YMD_date:D&s_trackval=GooglePM>

**1993** – Jones International University became the first institution of higher education to exist totally online. <http://www.jiu.edu/about/history>

**1993** - Jacqueline and Martin Brooks published *In Search of Understanding: The Case for Constructivist Classrooms*, in support of constructivism in the American class room. <http://www.berrywood.com/reading/Constructivism.pdf>

**1993** - The first Pentium processor, the 60 MHz “P60”, was marketed by the Intel Corporation. <http://www.google.com/#q=pentium+processor+history&hl=en&prmd=ivns&tbs=tl:1&tbo=u&ei=qflNTcboDYP7lwez7ZQX&sa=X&oi=timeline_result&ct=title&resnum=11&sqi=2&ved=0CHIQ5wIwCg&fp=3bd0fef49d2d0f86>

**1995** - The computer language, Java, was invented by James Gosling. <http://inventors.about.com/od/gstartinventors/a/James_Gosling.htm>

**1996** - James Banks published, *Multicultural Education: Transformative Knowledge and Action,* which presented issues of multiculturalism in education. <http://faculty.washington.edu/jbanks/>

**1996** – The Oakland School District of California proposed Ebonics be established as the native language of African American students. <http://linguistlist.org/topics/ebonics/ebonics-res1.html>

**1996** - President Bill Clinton signed the Illegal Immigration Reform and Immigrant Act of 1996, which prohibited states from offering higher education benefit based on residency within a state (in-state tuition) to undocumented immigrants unless the benefit is available to any U.S. citizen or national. <http://www.nacua.org/documents/iirira.pdf>

**1997** - The gas powered fuel cell was used in the first automobile by Daimler-Benz and Toyota. <http://inventors.about.com/od/fstartinventions/a/Fuel_Cells.htm>

**1999** – Two Columbine High School Students killed 15 and wound 23 in the Littleton, Colorado school, marking it as the deadliest school shooting incident to date. Evidence points to an over-reaction of individuals to bullying by classmates. <http://www.apfn.org/apfn/Columbine2.htm>

**1999** – Bankcorp. Practices a business philosophy of growth by consolidation, growing by absorbing other, smaller banking businesses. <http://google.brand.edgar-online.com/EFX_dll/EDGARpro.dll?FetchFilingHTML1?ID=1512150&SessionID=EBGJHSPZzEPNvz7>

**2000** - Diane Ravitch's book, *Left Back: A Century of Failed School Reforms* , criticized progressive educational policies and argued for a more traditional, academically-oriented education. <http://www.dianeravitch.com/vita.html>

**2001 - 2010**

**2001** – Al-Queda terrorists hijacked and crashed four planes on the eastern United States coast, killing 2976 victims as well as the 19 hijackers, resulting in devastation to the American and world stock markets. <http://911digitalarchive.org/>

**2001** – The “No Child Left Behind” act was approved by Congress. This reshaped the educational focus of the American school systems for years to come. <http://www2.ed.gov/nclb/landing.jhtml>

**2003** – Susumu Tachi, Masahiko Inami, and Naoki Kawakami invent the optical camouflage system. The system actually bends light around an object to partially conceal it from observers. <http://inventors.about.com/gi/o.htm?zi=1/XJ&zTi=1&sdn=inventors&cdn=money&tm=93&gps=203_86_1012_167&f=11&tt=2&bt=1&bts=0&zu=http%3A//www.time.com/time/2003/inventions/invinvisible.html>

**2003** - Adam Whiton and Yolita Nugent invented the No-Contact Jacket. The jacket delivers an electrical charge to anyone who touches it, other than the wearer. <http://inventors.about.com/gi/o.htm?zi=1/XJ&zTi=1&sdn=inventors&cdn=money&tm=184&gps=360_37_1012_167&f=11&tt=2&bt=1&bts=0&zu=http%3A//www.no-contact.com/>

**2003** – Many business organizations are plagued with frequent changes in top management, making it very difficult to consistently implement successful business philosophies. <http://google.brand.edgar-online.com/EFX_dll/EDGARpro.dll?FetchFilingHTML1?ID=3045503&SessionID=cvzZHCxxrrexGG7>

**2003** – Toyota introduces the hybrid car. <http://inventors.about.com/gi/o.htm?zi=1/XJ&zTi=1&sdn=inventors&cdn=money&tm=357&gps=143_126_1012_167&f=11&tt=2&bt=0&bts=0&zu=http%3A//www.time.com/time/2003/inventions/invprius.html>

**2004** – George Siemens introduced his concept of Connectivism, which stated that learning occurs continuously. <http://www.elearnspace.org/Articles/connectivism.htm>

**2005** – YouTube, the information social network, was invented by Steven Chen, Chad Hurley, and Jawed Karim. <http://inventors.about.com/od/xyzstartinventions/a/YouTube.htm>

**2007** – In the deadliest school shooting incident in U.S. history, Cho Seung-Hui killed 32 students and wounded 15 on the Virginia Tech campus, finally killing himself. No reason is given for the killing spree. <http://www.nytimes.com/2007/04/16/us/16cnd-shooting.html>

**2008** – Barack Obama defeats John McCain to become the first African American President of the United States. <http://www.whitehouse.gov/administration/president-obama/>

**2008** – Business and personal philosophies began to merge as more and more individuals left lucrative positions to take up “more necessary” positions in society. <http://hamptonroads.com/2010/01/nurse-finds-new-calling-pet-sitter>

**2009** – The Templeton Plan, the 21 step philosophy of John Templeton for business and life became more widespread among American businesses with excerpts such as always find the positive in the negative and always put first things first. <http://whatwouldjohntempletonsay.com/2009/07/>

**2010** – George Siemens’ Connectivism was described as the combination of three components: Chaos Theory, Importance of Networks, and Complexity of Self-Organization. <http://projects.coe.uga.edu/epltt/index.php?title=Connectivism>