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Today, GPS is an essential tool for national defense strategy, scientific research, and homeland security. It also serves as an important modern technology for navigational purposes. The technology of today is the Global Positioning System, which uses the global navigation satellite system managed by the government of the United States to pinpoint locations on a map. This was developed in by the U. Department of Defense, but it only became fully operational in The technology developed from satellite navigation experiments that tracked U. With the help of satellites, submarines were able to detect changes in radio signal position based on the "Doppler effect. The development of chemotherapy drugs has saved countless lives that may otherwise have been lost to cancer. Goodman " and Alfred Gilman " When was it invented? The s Why is it significant? The ongoing development of chemotherapy treatments has led to a decline in cancer patient mortality rates. Today, cancer and chemotherapy are sadly two commonly understood words. The use of chemotherapy for cancer treatment started in the s when two pharmacologists from Yale University, Louis S. Goodman and Alfred Gilman, made observations that nitrogen mustard, a chemical warfare agent, suppressed the growth of lymphoid and myeloid cells. They discovered that, although the patient had to return for repeat injections, the tumor masses were significantly reduced from the treatment. The results of their initial research were published in Their study sparked an interest in the subject for other scientists, and, after World War II, further research uncovered the benefits of folic acid in treating cancer. Since then, researchers have honed in on more advanced combination chemotherapy techniques, and countless lives have been saved. Since the s, cancer mortality rates have been steadily declining. Video Games Thomas T. Studies have suggested that video games have cognitive, emotional, and social benefits, such as aiding in the development of spatial skills and problem-solving skills and improving focus and creativity. Aside from social networking, the most popular computer-based pastime is video gaming. A video game allows interaction between a user and a device with video feedback. The first video game was actually an analog electronic game using a cathode ray tube. Called the "cathode-ray tube amusement device," it was created by Thomas T. Cathode-ray tubes were a ubiquitous element of life in the 20th century and were essentially the element that facilitated the electron beams that allowed images to appear on television screens. Since the 21st century, however, electronics manufacturers have moved toward LCD and plasma screens. Players would control a missile on the screen to hit a target. The target would be, for example, a picture of a plane physically taped to the screen. The controls for reaching the target were similar to that of an Etch-a-Sketch. Although the game was non-programmable and not very advanced, due to its high production cost, it was never released to the public and only handmade prototypes were created.

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Chapter 3 : AMERICAN SCIENCE AND INVENTION by Mitchell Wilson | Kirkus Reviews

American science and invention, a pictorial history:: The fabulous story of how American dreamers, wizards, and inspired tinkerers converted a wilderness into the wonder of the world by Wilson, Mitchell A and a great selection of similar Used, New and Collectible Books available now at calendrierdelascience.com

Scientific American, November 1, Advertisement A competition sponsored in by Scientific American asked for essays on the 10 greatest inventions. Inventions are most salient when we can see the historical changes they cause. In we might not appreciate the work of Nikola Tesla or Thomas Edison on a daily basis, as we are accustomed to electricity in all its forms, but we are very impressed by the societal changes caused by the Internet and the World Wide Web both of which run on alternating-current electricity, by the way. A century from now they might be curious as to what all the fuss was about. The answers from thus provide a snapshot of the perceptions of the time. Scientific American - November 1, Following are excerpts from the first- and second-prize essays, along with a statistical tally of all the entries that were sent in. The first-prize essay was written by William I. Wyman, who worked in the U. Patent Office in Washington, D. The steam turbine, invented by Charles Parsons in and commercially introduced over the next 10 years. A huge improvement in powering ships, the more far-reaching use of this invention was to drive generators that produced electricity. Wyman gave the honor specifically to Gottlieb Daimler for his engine, arguing: Such success did come with the advent of the Daimler motor, and not before. Entertainment always will be important to people. Systems for transmitting information between people have been around for centuries, perhaps millennia. Telegraph signals got a speed boost in the U. Wireless telegraphy as invented by Guglielmo Marconi, later evolving into radio, set information free from wires. It appears on this list for only one reason: It is used to extract gold from ore. The Nikola Tesla induction motor. The Linotype machine enabled publishersâ€™ largely newspapersâ€™ to compose text and print it much faster and cheaper. It was an advance as large as the invention of the printing press itself was over the painstaking handwritten scrolls before it. The electric welding process of Elihu Thomson. In the era of mass production, the electric welding process enabled faster production and construction of better, more intricate machines for that manufacturing process. The electric welder invented by Elihu Thomson enabled the cheaper production of intricate welded machinery. Assembled in numbers, they provided an efficient means of driving electrical generators and producing that most useful commodity. Dowe, also of Washington, D. He divided his inventions into those aiding three broad sectors: Electrical fixation of atmospheric nitrogen. As natural fertilizer sources were depleted during the 19th century, artificial fertilizers enabled the further expansion of agriculture. Preservation of sugar-producing plants. McMullen of Chicago is credited with the discovery of a method for drying sugar cane and sugar beets for transport. Another success of chemistry. Henry Ford began production of the Model T in and it was quite popular by Charles Duryea made one of the earliest commercially successful petrol-driven vehicles, starting in Cars for personal transportation were an improvement on railways. Bartlet, who each had a milestone on the road pun intended to successful automobile and bicycle tires. The giant rotary press was quite capable of churning out masses of printed material. The bottleneck in the chain of production was composing the printing plates. The Linotype and the Monotype dispensed with that bottleneck. The essays sent in were compiled to come up with a master list of inventions that were considered to be the top Here are the rest of the results:

Chapter 4 : American Science and Invention a Pictorial History by Wilson, Mitchell

American Science and Invention, a Pictorial History: The Fabulous Story of how American Dreamers, Wizards, and Inspired Tinkerers Converted a Wilderness Into the Wonder of the World.

Chapter 5 : American Science and Invention: A Pictorial History by Mitchell Wilson

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