**Computer usage in education.**

Computer technology has had a deep impact on the education sector. Thanks to computers, imparting education has become easier and much more interesting than before. Owing to memory capacities of computers, large chunks of data can be stored in them. They enable quick processing of data with very less or no chances of errors in processing. Networked computers aid quick communication and enable web access. Storing documents on computers in the form of soft copies instead of hard ones, helps save paper. The advantages of computers in education primarily include:

* Storage of information
* Quick data processing
* Audio-visual aids in teaching
* Better presentation of information
* Access to the Internet
* Quick communication between students, teachers and parents

Read more at Buzzle: <http://www.buzzle.com/articles/role-of-computers-in-education.html>

Computers are a brilliant aid in teaching.  
  
Online education has revolutionized the education industry. Computer technology has made the dream of distance learning, a reality. Education is no longer limited to classrooms. It has reached far and wide, thanks to computers. Physically distant locations have come closer due to Internet accessibility. So, even if students and teachers are not in the same premises, they can very well communicate with one another. There are many online educational courses, whereby students are not required to attend classes or be physically present for lectures. They can learn from the comfort of their homes and adjust timings as per their convenience.  
  
Computers have given impetus to distance education.  
  
Computers facilitate effective presentation of information. Presentation software like PowerPoint and animation software like Flash among others can be of great help to teachers while delivering lectures. Computers facilitate audio-visual representation of information, thus making the process of learning interactive and interesting. Computer-aided teaching adds a fun element to education. Teachers hardly use chalk and board today. They bring presentations on a flash drive, plug it in to a computer in the classroom, and the teaching begins. There's color, there's sound, there's movement - the same old information comes forth in a different way and learning becomes fun. The otherwise not-so-interesting lessons become interesting due to audio-visual effects. Due to the visual aid, difficult subjects can be explained in better ways. Things become easier to follow, thanks to the use of computers in education.  
  
Computer software help better presentation of information.  
  
Internet can play an important role in education. As it is an enormous information base, it can be harnessed for retrieval of information on a variety of subjects. The Internet can be used to refer to information on different subjects. Both teachers and students benefit from the Internet. Teachers can refer to it for additional information and references on the topics to be taught. Students can refer to web sources for additional information on subjects of their interest. The Internet helps teachers set test papers, frame questions for home assignments and decide project topics. And not just academics, teachers can use web sources for ideas on sports competitions, extracurricular activities, picnics, parties and more.  
  
Computers enable access to the Internet which has information on literally everything.  
  
Computers enable storage of data in the electronic format, thereby saving paper. Memory capacities of computer storage devices are in gigabytes. This enables them to store huge chunks of data. Moreover, these deveices are compact. They occupy very less space, yet store large amounts of data. Both teachers and students benefit from the use of computer technology. Presentations, notes and test papers can be stored and transferred easily over computer storage devices. Similarly, students can submit homework and assignments as soft copies. The process becomes paperless, thus saving paper. Plus, the electronic format makes data storage more durable. Electronically erasable memory devices can be used repeatedly. They offer robust storage of data and reliable data retrieval.  
  
Read more at Buzzle: <http://www.buzzle.com/articles/role-of-computers-in-education.html>

**Computer usage in finance**

The discovery of computers has transformed the financial industry and how business deals are transacted. It is possible for accountants to keep large amounts of data, conduct intricate calculations and manage financial transactions from a computer. Computer technology enables global economies capabilities impossible decades ago. Computers influence both business and personal financial management.  
  
Read more : <http://www.ehow.com/info_8398199_uses-computers-finance.html>

Communication

* Computers enhance financial communication within members of an organization through a network system connecting various departments. With the use of computers, key financial decision makers are able to send financial reports and strategies instead of holding meetings. This system allows finance people to get updates on world stock exchange, and price changes affecting their business. The use of emails also enables finance people to inform other departments and consumers of key policy changes, such as price modifications on products and goods.

Spreadsheet Software

* Spreadsheet software influences the way large- and medium-sized firms, as well as individuals, key in and organize financial data. Spreadsheet applications are used to run day-to-day financial tasks, such as compiling financial data, presenting the data in an organized manner through the use of charts and graphs, drawing budgets and calculations of complex transactions. This application comes with computer programs, such as Microsoft excel, that enables organizations and individuals to plan finances without wasting too much time.

Data Storage

* Computerization makes data storage manageable and less bulky. Computers enable organizations to store large amounts of files in a small space, allowing us to have a large track of historical transactions, while avoiding consumption of space that would otherwise be consumed by piles of files in cabinets. Keeping financial records is critical for organizations, as well as individuals, as it allows tracking of payment records, debts owed, purchases done and bank transactions made. Having detailed financial records helps an organization to continually audit and analyze business performance.

Programmed Transactions

* Computerized financial software conducts programmed business and accounting transactions. Most finance departments utilize accounting applications, such as QuickBooks, to perform financial transactions and to manage a company’s income and expenditure. These programmed  
  applications enable an organization or individuals to keep track of financial operations and also conduct complex transactions effortlessly without consuming a lot of time and labor that would otherwise be used in case of manual transactions. Organizations can purchase software depending on nature of work; other applications include Grant Management application, and payroll software.

Financial Information

* Computers have enhanced access to wide financial information through Internet access. Business operators or individuals can now access information on investment prospects, and conduct a detailed research on its profitability. There is also wide financial information available on the Internet, such as world prices, tax changes, inflation rate and currency exchange rates making it easier for institutions and individuals to make informed financial decisions. The Internet provides a wide source of information and access to specific financial reports of companies in trade.

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**Computer usage in Entertainment**

The Use of Computers in Entertainment



Modern computers offer endless means of entertainment.

*Computers started as very simplistic machines for storing and transferring data. Most of these files were text-based reports used in a work environment. As technology advanced, computers became increasingly versatile in what they could do. With the creation of the Internet and faster processors, file sharing and entertainment became a popular use for personal computers everywhere. Computers have endless uses in the entertainment industry by directly marketing products to users. [Have a question? Get an answer from online tech support now!](https://now.ehow.com/tech?utm_source=eHow&utm_medium=intext&utm_term=PC+Computers&utm_content=intext1&utm_campaign=none&article_title=The+Use+of+Computers+in+Entertainment)*

1. Music
   * Computers now have almost unlimited access to any song by any artist. Many website services allow users to purchase individual tracks or albums directly to their computer. Most record labels take advantage of these services to make up for lost revenue from illegal downloading. Although, if users do not wish to purchase music, they can still stream music from many websites free but with advertisements. Computers also open a venue for many amateur musicians in the music industry to record their own music without a professional studio. Computers also allow musicians to create artificial instruments to record with, called MIDI instruments.

Television and Movies

* + With the advancement of video card and Internet speeds, movies and streaming television are now at the click of a mouse button. Many website services offer free-to-stream movies with the cost of a monthly subscription fee. Some websites even offer free streaming episodes of certain TV series with Internet commercials. With the use of newer HD televisions and computers, the option of sending your computers video feed to a full-screen television is possible. In some cases, users may not even need to pay for cable service or television because of all the free available video content online.

Art

* + Art is something that is readily available online at any moment. Pictures, paintings, poetry and more are just a click away. Popular browsers offer specific image search options to quickly browse through art with a single keyword. Besides general use, computer photo editing programs and animation programs are also the sources behind most movies and professional photographs.

Games

* + Computer games are a quickly growing market just like all other forms of video games. However, computer games offer a very wide array of possibilities. Computers have access to many peripheral devices such as keyboards, mouses, joysticks, controllers and more. Computer games also are highly customizable because computers can manipulate game files. Examples of this would be creating new levels, characters or graphic files for specific games. In fact, computers are absolutely necessary for programming any sort of new video game.

Read more : <http://www.ehow.com/info_8301108_use-computers-entertainment.html>

**Computer usage in medical**

Computers play a key role in almost every sphere of life. They facilitate storage of huge amounts of data, they enable speedy processing of information and they possess an inbuilt intelligence, which if supplemented with human intellect, can work wonders. Owing to their intelligence and speed, computers function on a level close to that of the human brain. Computers can hence be employed in different fields like engineering, data processing and storage, planning and scheduling, networking, education as well as health and medicine. You might want to take a look at the various uses of computers, before looking at the importance of computers in medicine.  
  
Importance of Computers in the Medical FieldData Storage  
Surgical Procedures  
Diagnostic Tests  
Knowledge Sharing

Storage of Patient Data and Health Information  
▸ Computers are the excellent means for storage of patient-related data. Hospitals employ computer systems to maintain patient records.  
▸ It is often necessary to maintain detailed records of the medical history of patients. Doctors often require information about a patient's family history, physical ailments in the family (if any), already diagnosed diseases and prescribed medicines. This information can be stored in a computer database.  
▸ Computers can keep track of prescriptions and billing information. They can be used to store information about the medicines prescribed to a patient as well as those, which cannot be prescribed to him/her (ones which the patient is allergic to).  
▸ Computers enable an efficient storage of huge amounts of medical data. Medicine comprises a vast information base. Computer storage can serve as the best means of housing this information.  
▸ Medical journals, research and diagnosis papers, important medical documents and reference books can best be stored in an electronic format.  
  
Using Computers in Surgical Procedures  
▸ Computer software is used for diagnosis of diseases. It can be used for the examination of internal organs of the body. Advanced computer-based systems are used to examine organs of the body.   
▸ Some of the complex surgeries can be performed with the help of computers. Computer-assisted Surgery (CAS) is a fast-advancing field in medicine, which combines medical expertise with computer intelligence to give faster and more accurate results in surgical procedures. In CAS, a model of the patient is created, then analyzed prior to surgery. The surgical procedure is simulated on the virtual image of the patient.   
▸ The surgery can then be performed by a surgical robot, as programmed by a medical professional or the robot may only assist doctors while they do the actual surgery.  
▸ In both cases, computer intelligence is at work, thus underlining the uses of computers in medicine.   
Back to Index  
  
Using Computer Technology in Diagnostic Tests  
▸ The different types of monitoring equipment in hospitals are often based on computer programming.  
▸ Medical imaging deals with techniques to create images of the human body for medical purposes. Many of the modern methods of scanning and imaging are largely based on computer technology. We have been able to implement many of the advanced medical imaging techniques, thanks to developments in computer science.  
▸ Magnetic resonance imaging employs computer software. Computed tomography makes use of digital geometry processing techniques to obtain 3-D images. Sophisticated computers and infrared cameras are used for obtaining high-resolution images. Computers are widely used for the generation of 3-D images.  
▸ Many of the modern-day medical equipment have small, programmed computers. Many of the medical appliances of today work on pre-programmed instructions. The circuitry and logic in most of the medical equipment is basically a computer.  
▸ The functioning of hospital-bed beeping systems, emergency alarm systems, X-ray machines and several such medical appliances is based on computer logic.  
  
Communication between Medical Practitioners and Patients, Knowledge Sharing between Doctors  
▸ Computer networking enables quicker communication. Computers and the Internet have proven to be a boon in all the spheres of life. In the field of medicine, computers allow faster communication between a patient and a doctor.  
▸ Doctors can collaborate better over the Internet. Today, it is possible to obtain experts' opinions within seconds by means of the Internet. Medical professionals sitting on opposite sides of the globe can communicate within minutes with the help of the Internet. It is due to computer networking technology that network communication has become easy.  
▸ Medical practitioners can discuss medical issues in medical forums, they can blog, write articles, and contribute to medical journals available online.  
▸ Updates in the medical field, advancements in medicine, information about new methods of treatment, etc. can reach the common man within minutes, thanks to the Internet and easy access to computers.  
▸ Doctors can exchange images and messages in seconds and derive conclusions speedily. They can seek advice and share knowledge in a convenient manner over the Internet.  
  
The importance of computers cannot be stressed enough. Computers have given a new dimension to every field, and medicine is no exception.  
Read more at Buzzle: <http://www.buzzle.com/articles/importance-of-computers-in-medicine.html>

**Uses of Computers in Scientific Research**  
Read more : <http://www.ehow.com/list_7184064_uses-computers-scientific-research.html>

Computers have changed the ways in which scientific research is compiled and analyzed. Scientists, engineers and researchers alike are able to compile vast amounts of data and leave it to the computer to work through the data while focusing on another area of the research project. This creates research results with fewer errors and better-engineered products.  
  
Read more : <http://www.ehow.com/list_7184064_uses-computers-scientific-research.html>

Complex Data Analysis

Computers used in scientific research have the ability to analyze data in ways and at speeds not possible with the human eye. They are able to analyze percentages of materials present in a variety of compounds from soil samples to chemicals and even the air you breathe. Additionally, computers used in this manner can determine trends in data samples. For example, computer analysis of data in research could determine the temperature at which certain chemical compounds break down or the percentages of improvement patients show when administered a certain medication.  
  
Read more : <http://www.ehow.com/list_7184064_uses-computers-scientific-research.html>

Solving Mathematical Equations

Scientific research often requires that complex mathematical equations be solved in order to determine if data is valid or if a certain structure of molecules will remain stable. Computers are integral to this calculation process since scientists can write software programs specifically to provide answers to such questions. This removes the element of human error, which can cost research institutions millions of dollars in fixing a product that was created with even the smallest amount of flawed data.  
  
Read more : <http://www.ehow.com/list_7184064_uses-computers-scientific-research.html>

Prediction Modeling

Scientists and researchers are able to use computer programs to model how data might manifest itself in the future. This ability is useful in predicting climate patterns, simulating how engineered products might perform in the field, predicting the erosion rate of beaches and anticipating the absorption rate of medications in the body. Scientists and engineers are then able to adjust building strategies or chemical compositions of products to ensure safe operation and consumption.

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**Computer use in Business**

In today's business climate, competitors may be as close as the next website or email message. One way to gain a competitive advantage is to learn how computers can help your business. You may know about email, accounting and word processing programs, but other software exists that can increase productivity, attract new customers, reduce costs and save you time.   
  
Read more : <http://www.ehow.com/about_5278106_different-uses-computers-business.html>

Computers Facilitate Communication

* Email services, such as Yahoo and specialized services, like HushMail help businesses send and receive electronic correspondence. Many online email services also enable you to voice chat with others over the Internet. Companies can also use applications such as Outlook to manage business mail, track events and help employees schedule meetings. Skype, Google Hangouts and similar programs give you the ability to hold remote video meetings with people from around the world. Many of these communications platforms also work on smartphones and tablets.

Data Mining Benefits

* Businesses often acquire and store massive amounts of information in relational databases, spreadsheets, XML files and other repositories. Learn to use data mining techniques and you can tap into a valuable undiscovered source of business intelligence. Data mining software can help businesses identify patterns and discover new relationships in historical data. Although data mining can help small companies, it's particularly useful for businesses with large amounts of complex data. Businesses that use data mining can boost sales, acquire new customers, improve productions, increase customer satisfaction and predict future business trends.

Customer Relationship Management

* Stand-alone software exists that can help business owners find, service and retain customers. Modern CRM applications integrate many of these functions into a single, unified system. Typical tasks that full-featured CRM apps perform include contact management, customer service and sales force automation.

Order Fulfillment

* Fulfilling orders can be a time-consuming task, because it may require the assistance of people in accounting, the warehouse, inventory control and shipping departments. Computers make it easier for businesses to automate and speed up time-consuming order fulfillment processes. For example, an order fulfillment application may use barcode scanners to record product information as a product moves from the warehouse to the shipping trucks. Order fulfillment software can also tell you when to replenish your inventory.

Design and Graphics

* You don't need to hire a professional graphic artist to create professional looking graphics for your business. Tools, such as image editors and desktop publishing applications, can help novices create Web buttons and banners, draw logos, create marketing materials, enhance photos and produce newsletters. Programs, such as PowerPoint and Open Office Impress, can help you create powerful business presentations by clicking buttons and dragging your mouse. Video editing programs also give you the power to produce your own company videos that you can use for advertising and marketing. Computers can also connect you to the Internet where you can download free graphics that you can customize.

Marketing and Advertising

* There are several ways for businesses to advertise and market their services. Many business owners use computers to tap into the power of social media sites, such as Facebook and Twitter. In addition to advertising products and services on these sites, businesses can use software to design and manage email marketing campaigns that target potential customers.

Using Computers to Manage People

* Human Resources software can help businesses do everything from find potential employees to discipline them when problems occur. By storing employee information in a central repository, HR applications also make it easier for HR personal to track employee performance, maintain information about benefits and communicate with employees efficiently. Many HR apps also give HR managers the to generate reports that profile specific employees.

Computer Administration

* Regardless of the size of your business, it's important to keep your computers secure. If you have a large company, ensure that your IT department has the skills necessary to set up users, install software and keep your network safe. If you have a small office, assign an administrator to manage your computers.

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**The Importance of Computers in Engineering**

Read more : <http://www.ehow.com/info_8570869_importance-computers-engineering.html>

Product engineers apply science, math and original thought to develop new products or new product solutions. Traditionally, this consisted of drawing out new products by hand, then building them. But this was laborious. Today, engineers rely on computers for much of the process. Using computers and specialty computer software, engineers can design, test and make changes to products in minimal time. Computers help them complete the task at hand much more quickly.  
  
Read more : <http://www.ehow.com/info_8570869_importance-computers-engineering.html>

CAD

* CAD, or computer-aided design, is the process of designing new products using computer software. Such software helps designers and engineers take their ideas from a concept state to a model in a 3-D environment. CAD software, such as that from SolidWorks, features a user-friendly interface to allow engineers to bring their ideas to life more quickly. And when you're engineering a new product, being fast to market is key to staying competitive.

CFD

* Typically, when engineers are developing things such as airplanes and automobiles, they'll put the product through wind tunnel testing to make sure that drag is minimized. Drag slows the speeds of such vehicles, which can lead to a reduction in fuel economy. CFD, or computational fluid dynamics, software has allowed engineers to do such testing virtually. Using a computer, they can take their CAD designs and put them through wind tunnel testing in 3-D. This saves time, in that they can immediately calculate such effects without having to physically test them.

File Sending

* An important stage in product development is prototyping. Engineers create one-off models of their parts to test for form, fit and function. Some companies have prototyping machines in house, while others outsource for these test parts. Computers have made outsourcing for prototype parts much easier. Prototyping service providers, such as Quickparts, offer online quotes for such services. Furthermore, computers also make it easier to exchange this information. Engineers can upload their CAD files to websites and select what materials and technologies they want used to create their parts.

Alterations

* Before computers, when design changes needed to be made, engineers had to open up the blueprint, and in some cases, redo the entire thing. But with computers and CAD software, if changes need to be made, engineers can open the appropriate file and make them within minutes on the computer. Computers facilitate the ability to make corrections quickly, so engineers can develop their products with ease and speed.

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