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Wireless Communication Technology : Bluetooth

"Let me transfer this song from your mobile via **Bluetooth**". You must have used this Bluetooth technology for transferring songs, images or videos from your mobile to your friends's mobile. But have you ever given a thought "**What is this Bluetooth? How these files are transferred without using any physical connecting media? Why this technology is called Bluetooth?**"

Bluetooth wireless technology is an open specification for low-cost, low-power, short-range radio technology for wireless communication of voice and data. In simple language, we can say that Bluetooth can let any of the Bluetooth enabled devices like your cell phones, desktop computers, notebook and PDA interact with one another without having any physical connection like a USB or any other port. Bluetooth technology was originally designed in 1994 by two **L.M Ericsson Telephone employes,** the Swedish born **Sven Mattisson** and his Dutch colleague, Jaap Haartsen to integrate its phones with all Internet enabled devices. The Bluetooth technology is named after a renowned 10th century Danish King, Harold Bluetooth.

Bluetooth borrows radio specifications to enable file-sharing and data transfers between devices. It is Omni-directional and has a present nominal range of 10cm to 10m, which can be extended to 100m with increased transmitting power. Bluetooth operates on a globally available low radio frequency i.e. 2.4 GHz, which has been agreed for the use of Industrial, Scientific and Medical devices (ISM). It supports data speeds of up to 721 Kbps, as well as three voice channels and can connect **eight devices** simultaneously. The technology is designed to be fully functional even in a very noisy radio environment, and its voice transmissions can be heard even under severe conditions.

This technology achieves its goal by embedding tiny, inexpensive, short-range transceivers into the electronic devices that are available today. When one Bluetooth devices comes within range of another, they automatically exchange address and capability details. Bluetooth doesn't require line of sight between communicating devices. The walls in your house won't stop a Bluetooth signal, making the standard useful for controlling several devices in different rooms.

Shipra Ranjan
HOD Comp. Sc. Deptt.

Counselor's Column

Know your learning style and follow the strategies of your learning style for maximum and fast learning.

A: Auditory Learning Style	B: Visual Learning Style	C: Kinesthetic Learning Style
You mainly learn by hearing. You learn best through verbal lectures, discussions, talking things through and listening to what others have to say.	You mainly learn by seeing, you may think in pictures and you learn best form visual displays including diagrams, illustrated text books, overhead transparencies, videos, flip charts and hand outs.	You learn by doing. You learn best through a hand-on approach. You may find it difficult to sit still for long periods. You feel the need for activity and exploration of physical world around you.
Strategies : • Discuss topic with your lecturers. • Explain new ideas to other people. • Use a tape recorder to put your summarized notes onto it and listen to them. • Ask other to 'hear' your understanding of a topic. • Read your summarized notes aloud.	**Strategies :** • Prefer sitting at the front to avoid visual obstructions. • Use text books with diagrams and pictures. • Use flow charts, graphs, videos, posters slides etc. while learning. • Underline important points with different coloured highlighters. • Take detailed notes to absorb the information.	**Strategies :** • Do things to understand. • Put plently of examples into your summary. • Use case studies and applications to help with principles and abstract concepts. • Go back to lab manual or laboratory for a hands-on approach. • Explore the physical world through field trips, experiments etc.

Dr. Dipti Yadav

Kaleideoscope

Articles

Anger Prevention Kit

How to keep your "Cool" even in explosive situations.

Think.....

* The humble match stick has a head, but it does not have a brain.
* Therefore, whenever there is a little friction, it flares up immediately.
* You and I have heads as well as brains.
* There fore, let us not react on impulse.
* Always Smile ..... it shall pass!

Remember : Anger is one Letter Short of Danger

Ms. Rashmi Gupta

Poem

Falling Leaves

Once I saw a tree, with golden leaves
In the misty morning. It looked like an old man
with wrinkles and grey hair.
As I was looking, a leaf fell down.
It came down in the wind,
singing and dancing, without sorrow.
As days passed the leaf become
Pale and pale and dry.
And one day dis-appeared into the earth
To where it had come from.
But we are not ready to accept death
Mortality is a journey to another world,
A world there is no difference
Only happiness,
Everlasting happiness

Anirudh Varshney, XI-A

Ignited Mind

"Is Education For All Is Still A Mirage?"

Yes, education for all it still a mirage. The constitution of India has envisioned free & compulsory education for all children up to the age of 14 years. The target was to be fulfilled by 1960 i.e within 10 years of adaptation of our constitution. But 50 years since independence India's children have little to celebrate. 63 million of them are still not going to school. And if the present trend continue, we are still 50 years away from reaching the goal. Nearly half of the adolescent girls are illiterate.

Education is the basic & primary need for the progress of society. The main obstacle in the way of spreading education is the lack of educational facilities. Further, the quality of schooling in India is far from satisfactory. At many places there is no infrastructure, worth the name. At certain places there are more then 100 students for each teacher who has to just watch the children as a flock of sheep & get little time to teach them. Teaching aids are practically unknown in remote school. The exiting school thus provide no attraction and no incentives either for the children or for their parents as they develop the feeling that sending of children to school is waste. The answers needs to be spread among the poor, uneducated parents about the need for education. It is the duty of government to pay more & more attention towards education and make proper allotments in their budget for It. The govt should also try to provide international methods of teaching to attract more children towards school. Otherwise it will take a very long time to achieve the target of education for all.

Juhi Srivastava
XII D

Mathe-byte

Bhaskara I

Bhaskara was born in 1114 A.D. according to a statement he recorded in one of his own works. He was from Bijjada Bida near the Sahyadri mountains. Bijjada Bida is thought to be present day Bijapur in Mysore state. Bhaskara wrote his famous Siddhanta Siroman in the year 1150 A.D. It is divided into four parts; Lilavati (arithmetic), Bijaganita (algebra), Goladhyaya (celestial globe), and Grahaganita (mathematics of the planets). Much of Bhaskara's work in the Lilavati and Bijaganita was derived from earlier mathematicians; hence it is not surprising that Bhaskara is best in dealing with indeterminate analysis. In connection with the Pell equation, x^2=1+61y^2, nearly solved by Brahmagupta, Bhaskara gave a method (Chakravala process) for solving the equation

Rangoli

Rangoli is a Sanskrit word which means a creative expression of art through the use of colours. Rangoli is one of the most popular art forms in India. Rangoli is a form of self portraiture for women.

The motifs in traditional rangoli are usually taken from nature. One important point is that the entire pattern must be an unbroken line with no gaps to be left anywhere for evil spirit to enter.

Basically Rangoli is the art of drawing images and motifs on the floor and walls of once home using different colour powders designed with a beautiful combination of various colours.

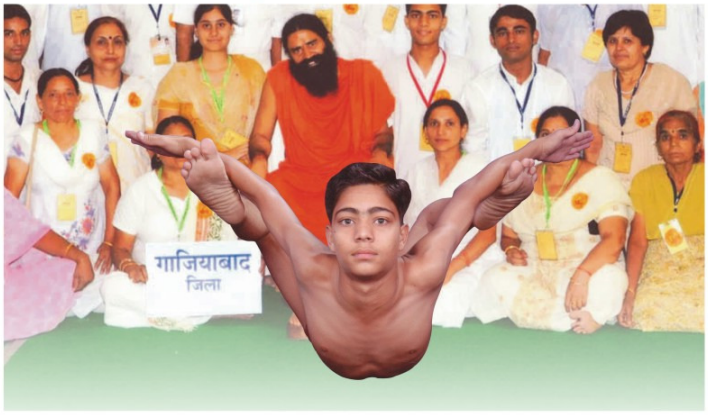
The rangoli images are creative and enchanting piece of art. The art of rangoli is known by different names in different regions. Such as "Rangoli" in Maharashtra, "Alpna" in Bangal and "Kolam" in south India. Rangoli is an age old custom of India and practiced all over the country.

Rangoli images stands for a sign of welcome. Rangoli also has a religious significance enhancing the beauty of the surrounding and spreading joy and happiness all around.

Sunita Singh
PRT - ART

Accolades

Yoga ... A way of life.



Ashish Shishodia of Class-XII A participated in a Yoga Vigyan shivir held at Haridwar.

Deepak Bhardwarj of VI A has been selected for the final round of HDFC Bank Merites Schorarship 2009.

The Blue Aeroplane

Om and Saiyam were fast friends. Om's parents were very affluent and lived in a posh bunglow where as saiyam was from a middle lass family his parents could barely make both ends meet. They could just afford to buy books etc. for him.

Om lived with his parents and grandfather whom he called grandpa. But Saiyam was not so lucky as his grandfather had died many years ago. Both friends used to play together at Om's bunglow. Om's grandpa loved both Om & Saiyam without any apprehensions. Om had many toy to play with which were gifted to him by his grandpa. Saiyam always thought had his grandpa been alive he would also have so many different toys. Of all the toys Om had a big blue aeroplane that was gifted to Om by his grandpa on his 5th birthday.

Today it was Saiyam's birthday. The whole day he kept on thinking about the blue aeroplane. The day was not much different from other days. But when he slept, he had a dream that his grandfather came to him and gifted him the same blue aeroplane. He played with his grandpa for quite some time suddenly he woke up and realised that he was just dreaming and it was not reality. He again slept with a heavy heart but when he woke up in the morning, the same blue aeroplane was lying next to his bed. From that day onwards he played with his grandpa, but in his dreams.

Ishita Joshi
XI C

1 Teacher : Can you describe a skeleton
Student : A skeleton is a man who went on dieting & forget to stop.

2. Three students after exam
Student 1 : I didn't knew anything in exam so I left the paper blank.
Student 2 : I also :
Student 3 : Shit, Teacher will think that we have cheated.

Titiksha - XII D

Some Interesting Facts

1. Cockroaches can live for 9 days after their heads has been cuts off.
2. The world's largest amphibian is the giant salamander. It can grow up to 5ft. in length.
3. The first coast to coast telephone line was established in 1914.
4. Basketball is a families American sport invented by a Canadian who was working at YMCA in the U.S.
5. The hardness of ice is similar to that of concrete.
6. The average cocoon contains about 300-400m of silk.
7. The average bed is home to our 6 billion dust mites.
8. Whitby, Ontaris has more donut stores per Capita than any other place in the world.
9. Ernest Vincent wright wrote a novel with over 50,000 words, none of which containing the letter "E"
10. No President of the united states was an only child
11. Mosquitoes have 47 teeth.
12. Most of the lipsticks are partially made of fish scales.

Renu Singh, VII-E

Facts About Space

1. The entire atmosphere weighs 5,700,000,000,000,000 tons that is 57 trillion tons!
2. The largest meteorite ever found on earth fell in Namibia, Africa. It originally weighed 100 tons.
3. Mercury whizzes around the sun at 30 miles (about 50 km) per second.
4. The solar system orbits the galaxy about one every 250 Million years. Thus, it has gone around the galaxy only 15 to 20 times.
5. If you are 12 years old on Earth, you'd be only 1 year old on Jupiter.

Lalit Aditya Kaushal

Tongue - Twisters

1. Silly sally swiftly shooed seven silly sheep.
2. Willy's real read wheel.
3. Six sleek swans swam swiftly southwards.
4. Gobblings gorgoyles gobbled gobblings goblins
5. Pirates private property.
6. If you notice this notice you will notice that this notice is not worth noticing!

Himanshu Singh, VI-E

Answers for G.K. Quiz

1. (c) HIV/AIDS
2. (c) Arteries
3. (d) O
4. (d) Infectious disease
5. (a) Mosquito
6. (a) Carry Oxygen

Mail your contributions to: davps_sbd@sify.com
You can log on to davpssahibabad.org to read our previous newsletters.