

THE STUDENTS GAZETTE



KENDRIYA VIDYALAYA DRDO

NEW ACADEMIC SESSION

Schools to continue with online classes in a new session. "It is clarified that students of any class should not be called physically to school for the academic session 2021-22 till further orders. However, teaching-learning activities may be commenced from April 1, 2021, for students through digital modes for the new academic session."



DOUBLE BOARDS FOR XII

The Central Board of Secondary Education (CBSE) on July 5 announced a new assessment scheme for the academic year 2021-2022. The board, in a notification, said it will reduce the syllabus and bifurcate the academic session into two terms, with exams at the end of each. The term I exams will be held in November-December 2021 and Term II exams will be held in March-April 2022.

INDEPENDENCE DAY

"Long years ago, we made a tryst with destiny, and now the time comes when we shall redeem our pledge, at the stroke of the midnight hour, when the world sleeps, India will awake to life and freedom..." Happy 75th Independence Day! On this day, in the year 1947, a new nation, India was born. An independent nation, a country not ruled by anyone but itself, thanks to the brave struggles and sacrifices made by our countrymen, the freedom fighters of India. On the midnight of 15 August 1947, Pandit Jawaharlal Nehru, the first prime minister of an independent India, delivered one of the greatest speeches of the 20th century, the Tryst With Destiny. Those hours of midnight, filled with national celebrations, combined with the pain of partition, and the huge responsibilities that come with a country as large as India. Those first hours of freedom were the beginning of the journey we are living now.



FROM THE PRINCIPAL'S DESK



PRINCIPALS MESSAGE

The past year posed many challenges with lock-downs, mask rules, economic crises, travel bans and the rise of e-learning. Students and teachers alike were unprepared for this sudden change and learning practices evolved overnight. The student gazette showcases a teenager's perspective on the happenings around the world.

I commend all students and their mentor for launching this e-newspaper surmounting the challenges faced by the pandemic. I hope more students and teachers join this initiative and use it as a platform to showcase their creativity.

Best Wishes

RAVI VENKATESWER RAO
PRINCIPAL

THE INFLUENCE OF A GOOD TEACHER CAN NEVER BE ERASED.

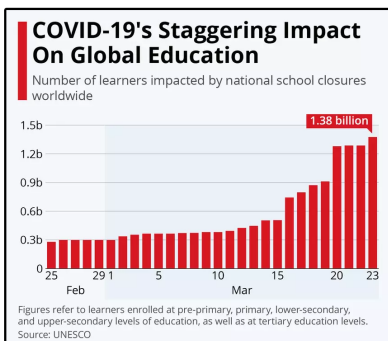
"Put in your best, be confident and have faith"

Technology has made it easier for students to learn with new devices. But nothing can come close to the experience of being taught by an inspirational teacher like Suja ma'am, our biology teacher, who will soon be retiring from the Kendriya Vidyalaya DRDO family. One of our wisest, most beloved teachers, she was always there for her students, always ready to help, even at the last minute. She would not only teach her subject with perfection but would also support her students in various other ways, some of which go much deeper than the neurons of our brain or the chambers of our hearts. As we all know, due to this pandemic, we will not be able to meet her in person.

Contd. on Page 3



SCHOOL AMID COVID



The COVID-19 has resulted in schools shut all across the world. Globally, over 1.2 billion children are out of the classroom. As a result, education has changed dramatically, with the distinctive rise of e-learning, whereby teaching is undertaken remotely and on digital platforms. *By Lewin, Keshav, Adithi, Sandeep, Balaji*

Drone Rules, 2021

The updated draft Drone Rules will replace the Unmanned Aircraft System (UAS) Rules, 2021. The Draft rules were built on the premise of trust, self-certification, and non-intrusive monitoring.

What is the Digital Sky platform?

The Digital Sky platform is an initiative by the Ministry of Civil Aviation (MoCA). This initiative was started for the following purpose:

1. To provide a secure & scalable platform to support drone technology frameworks like NPNT (No Permission, No Take-off).
2. To provide flight permission digitally
3. To manage unmanned aircraft operations and traffic in an efficient manner.
4. It was designed to enable flight permission

What is a Drone?

Drone is a layman's terminology for Unmanned Aircraft (UA). The following are the three subsets of Unmanned Aircraft:

1. Remotely Pi-loted Aircraft
2. Autonomous Aircraft
3. Model Aircraft.



generate certificates of airworthiness, remote pilot license, prior permission, and unique identification number. The Quality Council of India and certification entities authorized by the Council will handle the Issuance of Certificate of Airworthiness.

The coverage of drones as per the draft Drone Rules, 2021, has been increased to 500 kg from 300 kg, including drone taxis. Drone operators are required to generate a unique identification number of drones by providing requisite details on the digital sky platform. *By Dhrona*

KARGIL VICTORY : SYMBOL OF INDIA'S MIGHT

Kargil Vijay Diwas is celebrated every year on July 26 since the year 1999, to mark India's victory over Pakistan in the Kargil conflict. This year nation is celebrating the 22 years of victory in the Kargil war. It was in 1999 that a high-altitude mountain war broke out along the peaks of Kargil near the Line of Control, a de-facto border that divides Kashmir between the two nations.

History of Kargil War:

- The Kargil War was fought between May-July of 1999 in the Kargil district of Jammu and Kashmir along the Line of Control (LoC) in which India got the victory.
- The Kargil war was fought for more than 60 days, ended on 26 July.
- On this date in 1999 Pakistan army taking advantage of the melting snow and betraying the bilateral understanding of both the nations (that the post would remain unattended during the winter season) took command of the high outposts of India
- Pakistan army refused the claims that its soldiers were involved in the war and claimed that they were the rebels from Kashmir itself, but the ammunition, identity cards, rations stores, and other evidence proves that the Pakistan army was behind this cowardly act.

**IF DEATH STRIKES BEFORE
I PROVE MY BLOOD,
I SWEAR I'LL KILL DEATH"**

- Lieutenant Manoj Kumar Pandey



Operation Vijay:

- The operation was launched by the Indian Army twice in Indian history. The first Operation Vijay was launched in 1961 that led to the capture of Goa, Anjediva islands and Daman and Diu.
- The second operation was launched in 1999. Both the operations were of huge success. However, the Kargil Vijay However, the Kargil Vijay Diwas is marked on the culmination of the Kargil war.
- July 26 is celebrated as "Kargil Vijay Diwas" every year to mark the successful completion of "Operation Vijay" that ended the 3-month war along the Line of Control. Nearly 490 Indian army officers, soldiers, and jawans were martyrs during the battle.

Operation White Sea:

The operation White Sea was also launched during the Kargil war, 1999. During the operation, the Indian Air Force jointly acted with the Indian Army to flush out regular and irregular troops of the Pakistani army. *By Khaleel*



Key Details of the Draft Drone Rules 2021:

The new draft rules suggest the abolition of approvals for certain criteria, reduction of forms to six from 25, and relaxation in granting permission. It proposes the development of drone corridors for cargo deliveries. It will offer safety features such as geo-fencing, real-time tracking beacons. A six-month lead time will be given for compliance. There will be a minimal human interface on the digital sky platform and most permissions will be self-generated. Safety features like 'No Permission - No Take-off' (NPNT), real-time tracking beacon, geo-fencing, etc. are to be notified in the future. It will provide an interactive airspace map with yellow, green, and red zones that will be displayed on the Digital Sky platform. The yellow zone has been reduced from 45 km to 12 km from the nearby airport perimeter. In the green zone, no flight permission will be required up to 400 ft and up to 200 ft in the area between 8 and 12 km from the airport perimeter. The import of drones and drone components will be regulated by the Directorate General of Foreign Trade (DGFT). All drone training and testing to be carried out by an authorized drone school. The Directorate General of Civil Aviation will prescribe training requirements, oversee drone schools and provide pilot licenses online. Standard operating procedures (SOP) and training procedure manuals (TPM) will be prescribed by DGCA on the digital sky platform for self-monitoring by users. No pilot license is required for micro drones (for non-commercial use), nano drones, and for R&D organizations. Research and Development entities will not be required to generate certificates of airworthiness, remote pilot license, prior permission, and unique identification number. The Quality Council of India and certification entities authorized by the Council will handle the Issuance of Certificate of Airworthiness.

Let's look into our conversation with our teachers on their experience in these Pandemic times

How was the experience of the sudden shift to online classes?

"It was really difficult in the beginning as I was not tech savvy, but I slowly fell into the system, it took a little time, but could get adjusted with the cooperation of the students"

Mrs Suja mam

"Teaching is the transfer of knowledge from teacher to student. In an offline class we could easily find out whether a student can understand a concept or not. But during an online class, the situation is hypothetical; teachers only have to assume that students behind the screens have understood the concept. Also adapting to technology in the long run was an uphill task".

Mr A.K.Singh sir

The pandemic has brought about new changes, now everything has moved to a virtual environment, I am paying more attention to making things available as e content on an online platform. The new books in the library have not been used for a long time now.

Mr Vernekar Sir

What was your experience conducting online classes?

"Getting connected to students virtually was very challenging, I was unable to tell if the students had understood the concepts taught, physical presence is very important in the teaching learning process, I believe offline classes are very important for effective transaction and assessment"

Mrs Suja mam

What are the suggestions or advice that you have for us students?

"Choose what you like to learn and put in your best. Be confident and have faith in god, let this bad time come to an end, it is the students who are more affected by this microbe"

Mrs Suja mam

"As students it is important to take out time and work on overall development and working on a good attitude towards learning new things. It is important to take out time to help your parents and elders in the household chores, one should understand the situation and grow with others. One should always keep trying to learn something new."

Mr Vernekar sir

"Whether it is online or offline classes, whenever you are in a class try to understand the meaning of any concept that is being taught, consider it as a language. Whenever you recall a concept, a picture of it should come to your mind."

Mr A.K. Singh Sir

Our school library blog is the top school blog in Bengaluru, how did you go about the making of the blog?

"During the lockdown I was able to completely finish the school library blog, (<https://kvdrdolibrary.wordpress.com>) which has made it easier for students from Kendriya Vidyalaya schools all over India to freely access the e-resources and digital books, and find what they need easily. With the help of the blog, students can easily access and download the study material and other novels and books. It was very important that the copyrights and content uploaded should be valid and student friendly, also keeping it strictly for the benefit of students and not for commercial purposes"

Mr Vernekar sir

Is the online mode of examination a reliable way to conduct examinations?

"It completely depends upon the candidate giving the exam, whether it is an online or offline exam, if he or she taking the exam is honest then the evaluation becomes easier. But as far as an online exam is concerned the chance of malpractice is high as students are behind the screen and there is complete autonomy to cheat as no one is in front of them. Though everyone does not cheat, some of them always exist. So in all likelihood, an offline exam is better than an online exam."

Mr A.K. Singh Sir

Let's look into our conversation with some students on their experience in these Pandemic times

What do you miss most about pre covid times?

Everything! I miss going outside without a mask on my face, going to school, meeting my friends, going to the shops, playing sports outdoors without worrying about getting infected. Mostly I miss that freedom of going outside without worrying.

Ashwin Sholan

Yeah, my college is really far and I get to stay at home so bonus, also I got to spend time with my dad.

Rahul Yadav

I don't feel anything I miss about life before the pandemic. I've survived a global crisis & I've lived a relatively good life.

Kanishka

How did you deal with the online classes during the lockdown?

At first it was better than normal class, but nowadays it is really bad for me. Firstly, we have to stare at a mobile screen for the whole day until classes get over. Also, the net issues.

Kanishka

It was a nicer experience than an actual live one with all the sports and travel and meeting new people. I miss the rich education I used to receive because online classes aren't of much use in the real world. It takes almost thrice the amount of time to learn online than offline, but it's fine.

Rahul Yadav

My online classes went on very well, despite the delay in admissions. I miss offline learning as it is easier to understand in an actual classroom with the lecturer present physically than online. Luckily I like the subjects I have, so I find studying fun either way.

Ashwin Sholan

What was your experience with online exams?

It didn't make much difference really, just missed the thrill of discussing the questions with my friends, the last-minute prep before entering the exam hall, and the physical presence of a question paper and invigilator.

Ashwin Sholan

How did you help others in the pandemic?

I helped with the vaccination drive during the second wave as a part of my unit. Also, I started feeding some stray dogs in our neighbourhood.

Ashwin Sholan

A SNEAK-PEAK!

Report by Oviya and Yogita Damodaran

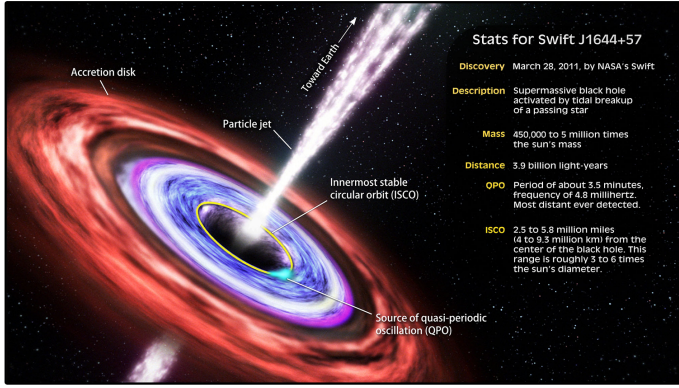
An Educator extraordinaire, a teacher par excellence, the epitome of determination Mrs. Suja Sasikumar born on 25th day of September, 1961 in God's own country Kerala. She embarked on her journey Kendriya Vidyalaya Sangathan on the 09th day of the October 1996, as Post Graduate Teacher at KV Solapur. She has worked in multiple KVs across the country, She also had the distinction of working at the land of lord Pashupathinath, Kathmandu when she was deputed to the KV Embassy of India, for a period of three years. She joined KV DRDO on the 30th day of October 2019.



WATCH THE FULL INTERVIEW
BY SCANNING THE QR
CODE OR USE THE LINK

SCAN ME

ROLE OF SPACE AND BLACK HOLES IN UNIVERSE

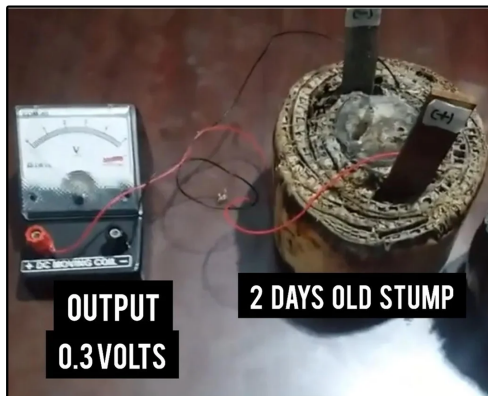


Space and time are the grand stage where the play of the universe unfolds. But space isn't a fixed stage and time doesn't tick the same for everyone everywhere. Matter bends space and bent space tells matter how to move. Put some stars and planets on the stage, and it sags underneath them. That misshapen stage, with all its little warps and dips, gives us gravity. Black holes do not just bend the stage, they are like trap doors. Places with so much mass and such intense gravitational force that it becomes a point of no return. Most Black holes form when very massive stars die. If you look directly at a black hole it looks like nothing. The space under their control is blocked by an invisible, one-way Border called the event Horizon.

Once entered, is shielded from the rest of the universe forever. Because the black hole trap door deforms space so much, not even light can escape it. We still can observe black holes because of their effect on matter. Things can orbit black holes just as they can orbit the sun or a planet. Many black holes have discs of matter orbiting outside the event horizon. This matter can be incredibly hot making the space around these black holes ironically, incredibly bright. The reason why we are able to see the rear side of the black hole is due to the fact that the gravitational field of the black hole bends light around it. This phenomenon of bending of light by huge masses in the universe towards their gravitational field is called gravitational lensing. Even these great monsters of the universe will die eventually. The black holes will eventually evaporate due to Hawking radiation but the time scale for such things to happen are numbers which our brains cannot grasp.

PRODUCING ELECTRICITY FROM BANANA STUMP

By Pranav PD



Supplies :

1. Banana Stump (The older, The better)
2. Electrodes (Zinc and copper)
3. Wires
4. Voltmeter

Every year,
National Science Day is celebrated on
February 28
to mark the discovery of the
Raman effect
by
Indian physicist Sir CV Raman, back in 1928.

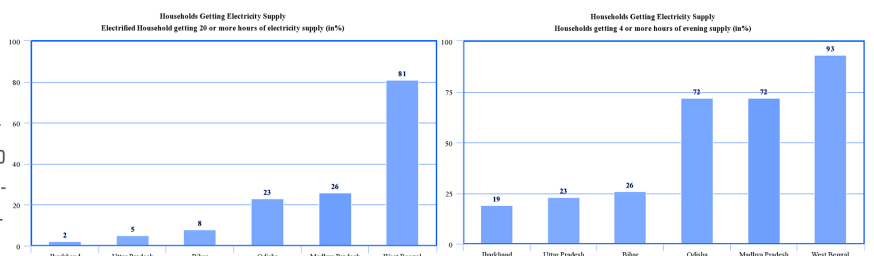
This summer holiday I got a lightning idea. Actually this summer holiday I visited my native which is in Kerala, India, there are a lot of banana trees in my garden there, one day I came across a banana tree that my grandma was chopping o, and suddenly I noticed a liquid substance inside it, I got curious and I came to know that it's citric acid! At that point of time I had also come across the need of cheap energy by the people living in rural regions across the globe where electricity supplies aren't coming. I got an idea to produce cheap renewable source of electricity through these banana stumps by incorporating the concept of Daniell cell here. This works on the principle of redox reactions. This can be a revolutionary idea to help people living in rural regions:

Step 1: Daniell Cell

The Daniell cell converts chemical energy produced during redox reaction to electrical energy and has an electrical potential equal to 1.1 V, when concentration of Zn^{2+} and Cu^{2+} ions is unity (1 mol/dm^3). The oxidation and reduction reactions occur in two different portions of the Daniell cell, the reduction half reaction occurs in copper electrode, while the oxidation half reaction occur in a zinc electrode. These two are known as redox couples or half cells. I have drawn illustrations of Daniell cells and even wrote half-cell reactions. A salt bridge is used to link in order to maintain overall neutrality and to complete the circuit for the flow of current.

Step 2: The Set Up/ Apparatus

So I have incorporated the principle of Daniell cell into these banana stumps. First of all and a banana stump, I used the one which my grandma was discarding, then get copper and zinc which act as electrodes as Zinc readily loses electrons and copper gains it. Thus copper acts as cathode and Zinc acts as anode. Then Pierce these electrodes into the banana stump. There is no need for a salt bridge as we are piercing it into the same banana stump. Connect electrodes with wire and test with a voltmeter!



Step 3: Output Potential From Fresh Vs Old Banana Stump

I noticed that as the banana stump is getting older and older the energy output is increasing because the acid inside is increasing thereby electrolyte is increasing. Here I checked with two banana stumps, one is 2 days old and the other one is almost 1 week old. I pierced the electrodes into the 2 days old one and got the output voltage around 0.3 Volts and then I pierced it into 1 week old one and I got the output voltage around 0.5 Volts. But this is not the end I atleast found that as long as I keep the electrode pierced inside the stump, the voltage output is directly proportional to it! According to me this can be a new source of renewable energy in the near future.

TRIVIA TIME

By E. Monalisa Rao

Put your thinking caps on and try cracking them all..

1. What's the longest nonstop commercial flight currently available?
(A) SINGAPORE - NEW YORK (C) PARIS - CAPETOWN
(B) LONDON - DUBAI
2. Approximately how far above Earth is the ISS?
(A) 27 nautical miles (C) 2700 nautical miles
(B) 227 nautical miles
3. What is the most common crime in the world?
(A) Theft (C) Corruption
(B) Assault
4. Which Planet is named after the god of war?
(A) Mercury (C) Jupiter
(B) Mars
5. Which is hotter?
(A) Lightning (C) Lava
(B) The Sun
6. Which river crosses the most countries?
(A) The Nile (C) The Amazon
(B) The Danube
7. Which soft drink company wanted to "Teach the world to sing" in 1971?
(A) Coca-cola (C) Britvic
(B) PepsiCo

ANSWERS
1. A, 2. B, 3. A, 4. B, 5. B, 6. C, 7. B

HEALTHY FOOD FOR YOGA

It is proven that fruits are the ideal pre-yoga snack. Fruits with low acidity levels like pears make for a smart selection.

Foods with high potassium-sodium content, like Bananas, are recommended since they help you stay hydrated.

Melons are low in acid and mostly water so they will keep us hydrated and energized during intense asanas.

Dahi/Curd is a good protein-packed pre-session food.

Since dark chocolate contains raw cacao which is rich in antioxidants it is a good option for a pre-session snack.

Almost all the dry fruits are good for health in general, and contain high nutritional value and consuming even a handful will completely recharge one's body.

By D Vaishnavi, Monalisa, Namratha, Aditi

MENTAL HEALTH: STILL A MYTH IN INDIA

Mental health awareness must begin at school. But school-based mental health service in India which includes specific strategies that have an emphasis on enacting peer support, partnerships and dialogic spaces for the children to engage in supportive interactions with other relevant peers or adults have largely remained restricted and is often neglected. The government must put more emphasis on this programme. Parents should ask their children to reach out to them if they are facing any issues, this simple step can do wonders and help them cope up with any kind of stress and also helps build a healthy relationship. If the situation worsens one mustn't hesitate to seek medical help. As a global community, it is high time we dispel myths and misperceptions about mental health and start making improvements. It's important to destigmatize mental illness and be willing to talk about it, rather than taking a defensive posture and looking for an escape path. It is important to remind yourself that mental illness is a medical condition that should not be combined with some form of self-blame, and that healing from it should be treated as a phase similar to recovering from any other physical illness. To ensure better acceptability and awareness of mental health-related issues, we must all work together to develop an activated approach within society. Finally, we must be trained and educated about these issues to be ready with the necessary knowledge to recognize and encourage others.

What is the first thing that comes to your mind when you get injured? Or any kind of physical damage? First aid, right? The priority is to wash the wound, then sanitize it, and then give the required medical treatment which may be as simple as applying an ointment. This is what we have been taught since our childhood. But what happens when the wound isn't any physical damage but something which has hurt us emotionally or psychologically? But what if you live in a country like India where social stigma remains an obstacle to help Indians cope with mental illness. The attitude towards mental health in India is very different from the one in the West. Here it's 'something's wrong with you and it is your fault,' instead of 'this is a medical condition and can be treated' kind of mentality. As a result, people hesitate to talk about it in the fear of being judged. It's still kind of a myth among people. According to WHO, India has one of the largest populations affected by mental illness and named India "the world's most depressing country"

In India, people with mental illness are categorized by society as 'lunatics' which further adds to a destructive cycle of the patient's guilt, pain, and loneliness. Because of the "shame" associated with mental illness, families tend to keep those who show visible symptoms hidden from the public, the patient feels victimized by his loved ones and makes him feel it indeed is his fault. India leads the world in teenage depression. Over the last five years, more than 40,000 students committed suicide in India. Last year, 8,492 students committed suicide. One student commits suicide every hour in India, and yet, we keep pretending like today's teenagers are anything from fragile each of these blame games makes diagnosis and treatment of teenage depression even more difficult. Due to common worries of lack of trust, peer pressure, a desire to be who they truly aren't, fear of judgement, and lack of awareness about mental health they don't seek assistance for mental issues in India. Most of the time they don't even realize their need for help and blame themselves for the situation which has led to student suicides.

By Ananya M

MIXED SPROUT

Ingredients

- 1 cup beans moong+moth beans
- 8-10 cherry tomatoes sliced
- 1 apple/avocado diced (optional)
- 2 tablespoon lemon Juice
- 1 cucumber sliced and diced
- ½ pomegranate seeds (optional)
- Salt and pepper to taste
- Green beans (sprouted)
- Any other lentils to your taste steamed, sprouted or boiled.

Instructions

- Soak the beans for 10-12 hours in 3-4 cups of water.
- Transfer the beans to cotton/muslin cloth or colander and tie its ends diagonally.
- Place this in a warm and dry place.
- Keep them moist by running through ½ cup of water every 3-4 hours.
- Depending on the weather, the germination process takes 1-2 days.
- Once the beans have germinated, you can eat them raw or steam them.
- Steam mung beans for 10-15 minutes(optional) Mix with the rest of the ingredients.
- Moong salads are an excellent source of enzymes and protein.
- They have very high levels of Vitamin A, D, C and E.
- They are a common ingredient in raw food diets.
- You can also germinate them easily at home.
- They are easy to digest and very good for weight loss.
- Black chickpeas also make a great combination with moong sprouts.
- Chana sprouts salad is a great way to add proteins in your diet.
- Hence help in Yoga practice.

By D Vaishnavi



PYRE OF OBLIVION By Devika S.

Heart throbbing with devotion,
Eyes kindling with zeal,
They gave their all,
Without an appeal.
Set in the pyre of oblivion,
Then transformed into ashes.
They nourished their motherland,
More than her living masses.
The ones they endeared,
Wept for a day or two.
Soon their memories were obscured,
Like words written on a dune.
Sunk into subconsciousness,
Their selfless sacrifices seldom reckoned.
Men marked with trivial greatness,
Their names were wiped away like filth.
Only seen by their mother,
They reside in their eternal home.
All the scattered bits they gather,
And glance outside the rejuvenating loam.
A bright yellow marigold,
A sprightly swaying green fields,
They came afresh from another mould,
To remain their land's steady shield.

A HORRIBLE STAIN By Vanshika Agarwal

She was young, she was small
No! The size of her dress didn't matter at all;
She was naive, He was bold,
Seeing him walk behind, Made her cold;
He went up to her, Unannounced,
Cornered her, waiting to pounce,
Trying to touch her, without consent,
Committing this big offence,
She fought and struggled for a while,
But all the struggles just made him smile,
That's the day she can't forgive,
Oh! The pain and misery she had lived;
This pain inside, she's unable to contain,
She has to live the rest of her life...
with horrible stain.

THE LOST FRIEND By Devika S.

Looking into the mirror,
I see someone.
She peers into my eyes.
Am I the one,
Whom her heart desires? But when has she ever w-
on? Her pleas would never suffice.
A lost friend was she to me.
But today, it isn't the same.
I see in her a part of me.
My deep dismay and merry joys,
all reside in her ha- zel eyes.
How long can she subside?
How long can I hide?
Today, as we reunite,
We smile at each other,
and wipe our tears.
As we embrace,
I feel our fears recede.
They could no longer persuade,
The course of my stream.

WHEN MUSIC SPEAKS...

In the words of Plato, "Music gives a soul to the universe, wings to the mind, flight to the imagination and life to everything". We all have our favourite genre in music, a favourite artist, and few songs that comfort you in any mood. No matter how happy or sad you are, music is your one-stop destination. In recent times, access to various genres has been easier considering the significant development in technology. Apart from that, there has also been a lot of change in the kind of music that interests a wider audience. Particularly, western music has gained a lot of popularity in recent times. But what exactly is western music? By definition, western music refers to organized instrumentation and sounds created and produced in Europe, the US, and other societies shaped by European immigrants. This includes a wide assortment of music, starting from classical, jazz, rock, and even country music. The history of western music is rooted in Greek and Roman antiquity. Music was very well explored in the greek community, by playwrights, and fun fact, even Pythagoras tried to figure out the mathematics behind different sounds. Instruments like the lio and the harp were played in a variety of ceremonies. In the medieval era, considered to be the first stage of the six, the church communities started using music as a mode of meditation and prayer, as the primary form called plainchant, consisting of a single melody sung in Latin. These plainchants were not accompanied by any instruments and therefore these are what we, in to days refer to as a cappella. Then came the rise of polyphony which involved playing 2 different melodies getting into sync at the same time. Next, came the renaissance period where even though the focus was still on religious music, at the same time polyphony, was explored more and even usage of instruments like trumpets and drums were brought up. The rise of small guitars as part of the rhythm factor was encouraged too. The 3rd period called the Baroque saw the rise of more complex and intricate kinds of music and also led to the emergence of operas. Then was the classical music era that gave us beautiful melodies and also legends like Van Beethoven. This period is considered to be of a lot of significance because it has its influence on present-day music too. The next stage, referred to as the romantic period, was an explosion of emotions through music. It conveyed intense feelings through these amazing melodies. This is something we as listeners connect to the most because we all have a happy or sad mood song. The musical era we currently live in is called the modern classical era, and you might be astonished to find out that the music trends are all deep-rooted in the classical genre of music. As mentioned earlier this is the basis of all the music we hear today. As a listener, and I am sure everyone will relate to the fact that we all have a favourite Michael Jackson song, we all have an Indian song that calms us down even in the hardest of times. There are various types of music for sure, but if there is something everyone unanimously agrees on it is the fact that Music is all the therapy you need. It is the answer to all your questions in your anxiety, it's the tune to your tears when you are low, and as well quoted, where words fail, music speaks. We all just need to make an effort to respect every genre of it, and for that matter learn to respect any artform because ultimately that is what gives your inner soul a lot of peace and happiness. By Anagha S.

The Speaking Pen

It is not necessary to lead a crowd to show your abilities. Your uniqueness and authenticity are the only requisites to win a place in this world. At the same time, don't conceal your passion and strengths. Showcase them. It doesn't matter if you aren't being recognised or accepted by others. Never stop yourself from doing things that you love and enjoy. You don't have to win an award to prove the quality of your work. Ask yourself with an unbiased mind, "How can I improve myself? Where am I lagging? What is the solution?" and work to improve it. Always listen to genuine remarks and correct your mistakes accordingly but never measure your capabilities through the eyes of those detractors. People seldom acknowledge beautiful things in the current fast-paced rat race. Explore all the opportunities you have around until you find your true passion. Only then can you wake up with a zealous heart to exercise your faculties and go to bed with gratitude towards the knowledge you have acquired. There is a void in this world that you need to fill. It was the duty assigned to you. But many get stuck in the loophole of mediocrity without tasting fulfillment. The void left unfilled creates an emptiness in them. You can not expect to get on par with a person who is doing their work passionately. You don't have to paint a picture that is the imagination of someone else. Spread your wings, cross those boundaries, discover those uninhabited vistas and fill the void that was intended for you. By Devika S.



Olympics 2020: A Tribute

"There are decades where nothing happens, and there are weeks when decades happen." This edition of The Olympics has given us hope that India is slowly and steadily adopting a sports culture. Winning medals in Olympics has not been an issue since the 1996 Olympics when Leander Paes won a bronze medal in tennis singles, but this time it was something special as India has won Gold, Silver and Bronze medals in the same Olympics. With the best tally of 7 medals in the Olympics history, India beat its previous best of 6 medals during the 2012 London Olympics. Neeraj Chopra's Gold medal in Men's Javelin throw who went on to become the second Indian individual to win a Gold medal in Olympics. But last week at the same time we were reeling below with one medal in the tally then which had been a Silver medal won in weightlifting by Mirabai Chanu on the 24th of July. The people in India had lost hope as the most expected shooting and archery teams who were deemed to be medal prospects could not advance to the knockouts, though a few individuals like Deepika Kumari, Atanu Das, Manu Bhaker from these teams had done well, these are the two events where even an air factor could influence the result of the game, even the tennis contingent had been knocked out from the tournament during the initial stages. But as the event progressed we could see medal prospects had started to emerge, while someone like P.V. Sindhu, Bajrang Punia (Both finished with bronze medals) were expected to win the medals, but someone like Lovlina in boxing and Ravi Kumar Dhahiya in wrestling were an unprecedented medal winner who finished with a bronze and silver medals respectively. Our hockey teams both men and women had advanced to the semis of the event. The men's team went on to win a bronze medal which was our first Olympic medal in almost 40 odd years. Our women's though did not clinch a medal, but they made us all proud. Wrestling returned with two medals home, they will hope for betterment in the upcoming future. Special mention to Kamalpreet Kaur (discus throw) and Aditi Ashok (golf) who made the Indians glue to their televisions for watching an unfamiliar sport.



The TSG Team members and coordinators would like to salute all our Olympians who are present in this picture and those who are not present to make the country proud! *By Keshav*

Max Verstappen Wins His 5th Formula 1 Grand Prix This Year

The Dutch on his way to dethrone 7-time World Champion Lewis Hamilton Max Verstappen behind the wheel on his Honda, Red Bull F1 car, and his crew take the podium in first yet again in Austria on 4-07-2021. A sheer example of man and machine coordination and performance excellence at its best. Strategic planning of pit stops by the Red Bull crew, the superb performance of the Red Bull car and Max Verstappen's extraordinary driving skill leaves behind the in second position Valtteri Bottas by a whopping 17.973s. Max Verstappen took the pole position in the qualification round on Saturday (3-04-2021). He maintained a good lead margin throughout the race from start to the chequered flag.

**Formula 1: Behind the Scenes**

The perfect example of technological excellence of Formula 1 car makes it the fastest automotive vehicle on the planet, where the timings are maintained in 11000th of a second. Each F1 pit crew consists of more than 20 people responsible for stabilizing the car, changing the tires, making adjustments to the aerodynamics and strategically planning the race in coordination with the driver through radio connectivity.

Formula 1 is among the very rare mixed individual sports where a woman and a man can race on the same track fighting for the title. Although just about 10% of the technical side is women, they have not failed to prove their excellence in this male-dominated sport. Desire Wilson became the only woman to win a Formula 1 race of any kind winning the Brands Hatch in the British Auro F1 championship on 7th April 1980. As a result of her achievement, the grandstand at Brands Hatch was named after her.

The steering wheel of an F1 car works way beyond its job of changing directions. The steering has many controls. The driver can control a lot of parameters of the car, from adjusting brake force distribution to having a drink being squirted into the mouth. Some other vital controls on the steering wheel are engine mapping, brake bias, differential settings, radio, traction control, pit lane speed limiter, rain light, hand clutch, and gearbox neutral button. Motorsports like F1 include a safety car or a pace car. It is an automobile that limits the speed of the competing cars on the racetrack in the case of a caution period as an obstruction on the track or bad weather. The safety car aims to enable the clearance of any obstruction under safer conditions. A safety car generally consists of an aptly modified high-performance production car. *By Upasana*

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