

10Xpress

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Editor's Note

Dear Readers,

We are delighted to announce the third issue of 10Xpress, the official student-led school newspaper of 10X International School. This month's issue, although late, is certainly worth reading, as it covers a myriad of topics and gives insight into current events around the world.

We strive to set and maintain high standards for our writing and design staff so that 10Xpress can continuously grow and improve. Apart from this, we aim to cover a broad array of relevant topics in our articles to appeal to the interests and preferences of every reader. In line with this commitment, some headlines of this issue include "Spinal Implants for Parkinson's Mobility Support," "NASA's Telescope and X-rays Help Reveal New Black Hole," "Apple Shifts Production to India: A Strategic Move," and "Cricket World Cup Final: A Riveting Tale of Resilience."

Moving forward, **a commitment to punctuality is paramount**. Each issue will henceforth be published by the 5th of every month, ensuring timely delivery. This change underscores our dedication to consistency and reliability for our readers.

As we do in every issue, we'd like to express our heartfelt gratitude to the dedicated members of the Writing and Design staff. Their efforts were crucial in making this issue possible.

If you have any **feedback** regarding this issue, kindly fill out this **form**. If you have any queries or concerns, please reach out to us at pranav.morisetty@indusschool.com or bharat.ambati@indusschool.com, and we'll address them.

Thank you, and have an enriching read ahead!

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Note: This issue's best staff members have a star (☆) beside their name.

After(life) - Poem

By Siddarth Mitra (10)

"The more sand that has escaped the hourglass of our life, the clearer we shall see through it"
- Niccolo Machiavelli

Lest you stand at my grave and mourn, do not shed a teardrop. For when
I die—which I must do—revel in my legacies of warmth and gaiety.
I shall look upon you from twilight skies and whisper,
“Fret not over the empty space I once occupied,
Instead, laugh upon the memories I fostered.
Like a court to a jester.”

*One day, our paths shall cross again.
May the sands of time not be so merciless to you
As they were to me. Yet even I'm aware of life's fragility. For;
My body is an abandoned vessel, but can my soul be welcomed into
A nook of your mind instead? In there may I find a sojourn? All I seek is not to be
Forgotten. I promise to be a guest that is neither too burdensome, but all I ask is to never depart.*

The Ocean Bids Farewell - Poem

By Suchita Agarwalla (10)

I am trapped miles below
The sea has the tightest grip on me
I shift my gaze up
Sunlight penetrating the water

I desperately try to grasp hold of it
If only it wasn't translucent
If I could climb onto it like a rope
It would pull me into the human world

Instead, I keep sinking lower
“now the day of light can't reach the trenches”
The darkness is choking me,
my breath slowly fading away.

In my mind,
the reel rewinds
back to when I could glide through waves
float freely in open seas

Sometime between my last winds
I think about my body
being washed up on the shore
it is escorted by a majestic wave!

Ten Little Indians - Poem (1869)

By Frank Green

Ten Little Indians went out to dine; one choked his little self
and then there were nine.

Nine Little Indians stayed up very late; one overslept himself
and then there were eight.

Eight Little Indians travelling in Devon; one said he'd stay
there and then there were seven.

Seven Little Indians chopping up sticks; one chopped himself
in halves and then there were six.

Six Little Indians playing with a hive; a bumblebee stung one
and then there were five.

Five Little Indians going through a door; one stubbed his toe
and then there were four.

Four Little Indians going out to sea; a red herring swallowed
one and then there were three.

Three Little Indians walking in the zoo; a big bear hugged one
and then there were two.

Two Little Indians sitting in the sun; one got frizzled up and
then there was one.

One Little Indian left all alone; he went and hanged himself
and then there were none.

Spinal Implants for Parkinson's Mobility Support

By Chirag Gowda (12)

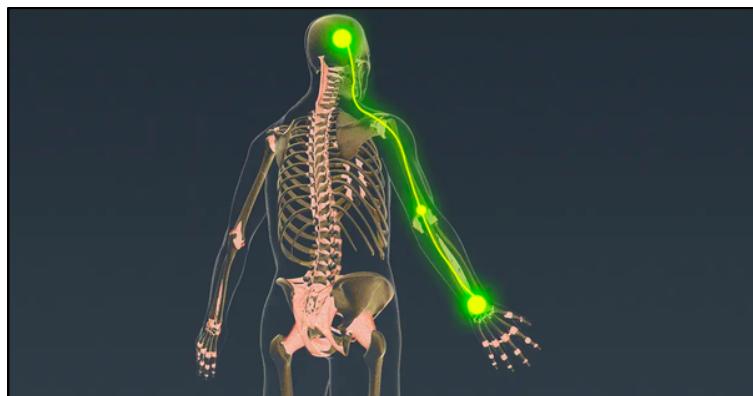
Parkinson's disease is a progressive neurodegenerative disorder that affects movement. It causes tremors, slow movement, rigidity, and impaired balance. A loss of nerve cells in a part of the brain called the substantia nigra causes the disease.

These nerve cells produce dopamine, a chemical that helps control muscle movement. Insufficient dopamine levels lead to loss of motor muscle movement. Drugs such as levodopa are used to increase dopamine levels, treating Parkinson's.

When dopamine medications are ineffective, Deep Brain Stimulation (DBS) is used, where electrodes are implanted in the brain, creating impulses to assist the brain in controlling muscle movement.

Marc Gauthier is a 62-year-old who has been suffering from Parkinson's for over 30 years and has not received any relief from either treatment. Because of this, he opted for a very experimental procedure in which he would be the first human to receive this treatment.

Spinal neuroprostheses use electrode implants in the spinal cord to assist muscle movement. This procedure has only been tested on three monkeys before this. The surgery implants electrodes at the top of the spinal cord, linking them to a neurostimulator placed underneath the skin of Marc Gauthier's abdomen. Marc pushes a button on a remote control to activate the neurostimulator. The neurostimulator stimulates the lumbosacral spinal cord to control the movement of the leg, allowing Marc to walk. Due to this rather risky procedure, Marc's quality of life has improved, with the procedure having future prospects.



Planet Theia Remnants Discovered in Earth's Crust

By Siddarth Mitra (10)

Until recently, the 'Giant Impact Hypothesis' was used to explain how the Moon formed. It proposed that a Mars-sized planet, Theia, collided with Earth 4.5 billion years ago. This collision caused both Theia and Earth to lose mass, creating a debris belt around our planet. Chemical similarities in Earth and lunar geology suggest that, over time, this debris came together to form the Moon.

Additionally, geophysicists have posited that the residual mass of Theia underwent a process of merging with the Earth's mantle, explaining the absence of detectable traces of Theia's existence following the collision event. However, skepticism within the scientific community has been prompted by the perceived lack of scientific plausibility associated with this particular facet of the Giant Impact Theory.

In 2021, Dr. Qian Yuan, a prominent skeptic of the Giant Impact Theory, experienced a breakthrough. He proposed that solid remnants of Theia might still exist within Earth's crust, specifically in the form of Large Low-Shear-Velocity Provinces (LLSVPs) in the mantle. These LLSVP regions in the mantle were previously unexplained areas that differed in density and composition from the surrounding mantle regions of our planet. Although the theory was not widely accepted due to a lack of evidence, Dr. Qian Yuan suggested that these LLSVPs could be remnants of Theia present on Earth, rather than Theia having melted into Earth's mantle.

However, in 2023, Dr. Qian Yuan and other like-minded researchers simulated the Giant Impact Theory and scientifically proved that if Theia had certain demographics, it would not melt into the mantle of Earth. Instead, it would form the LLSVP region of the Earth's Mantle as a dense deposition, which has now scientifically been termed blobs. This was done through repeated computerized simulations using quantum computers.

This theory answers many doubts in Geophysics and eliminates the inherent flaws of the Giant Impact Theory. This discovery may help geophysicists and geologists better understand the history of the Earth and the Moon.

NASA Telescope and X-rays Help Reveal New Black Hole

By Yi Zou (9)

A commonly overlooked aspect of technology is its role in Astronomy. A new record-breaking black hole has been discovered through the use of NASA's telescopic technologies this November. This black hole is at its early stage of growth and has never been observed by humans before, with its mass similar to its host galaxy, shedding light on the origin of black holes and galaxies. The identification of the black hole was made possible through the collaborative use of NASA's Chandra X-ray Observatory and the James Webb Space Telescope. Akos Bogdan from the Center for Astrophysics highlighted the significance of both technologies, stating, "We needed Webb to find this remarkably distant galaxy and Chandra to find its supermassive black hole."

The James Webb Space Telescope, a crucial component in this discovery, features a primary mirror composed of 18 hexagonal segments. These segments, made of gold-plated beryllium, provide a larger collecting area and infrared reflectivity. The primary mirror intercepts red and infrared light, redirecting it to scientific instruments through secondary mirrors. This design enables the telescope to penetrate the distant dust clouds associated with galaxy formations, ultimately facilitating the identification of the host galaxy for the black hole, known as UHZ1.

Contrastingly, the Chandra X-ray Observatory operates as an Earth satellite, orbiting our planet in an elliptical trajectory. Outfitted with high-resolution X-ray detectors and mirrors coated with a thin layer of iridium or gold, this observatory plays a pivotal role in detecting X-ray emissions from celestial bodies.

The mirrors in Chandra are strategically positioned at shallow angles using a "grazing incidence" approach, ensuring that X-ray photons are redirected toward a focal point. This design is essential for effectively capturing and studying X-ray emissions. In the case of the UHZ1 galaxy, the Chandra X-ray Observatory was instrumental in identifying the X-ray-emitting gas within the galaxy and revealing indications of the presence of a black hole.

Overall, technological advancements in Astronomy are helping us identify celestial objects billions of light-years away from Earth, breaching astronomical limits.

Innovative Startup Humane Launches the AI Pin

By Ruhi Beri (10)

Humane, a startup founded by former Apple employees, has recently launched the AI Pin, a wearable device that debuts as a replacement for phones and wearable technology such as smartwatches.

The pin is a compact, lightweight, and screenless device ingeniously designed to affix magnetically to clothing. Operating with a unique interface, it projects a laser onto the user's hand, enabling navigation through intuitive hand movements. This screenless, innovative device serves a multitude of functions, including texting, photo sharing, and interacting with an AI assistant. The company emphasizes its intention to provide a more instinctive means of interacting with technology.

While the concept of a screenless future intrigues many, concerns have been raised about the efficiency of the product. A video shared by Shayan (@ImSh4yy) on X (formerly Twitter) demonstrates the process of sending a simple text, "How's it going?" using the device. The interaction reportedly took 21 seconds, involving "16 hand pinches and 15 hand wiggles," as noted by Shayan. In contrast to the AI pin's singular function, devices with screens offer a broader range of capabilities. For instance, the AI assistant on the pin, serving as its only means of web search, has reportedly provided incorrect information and required correction twice. The absence of a search engine, a feature not provided by Humane, raises practicality concerns, as using conventional search engines is often deemed more efficient than relying solely on AI language models. These challenges highlight the ongoing debate over the trade-offs between screenless interactions and the multifunctionality of screen-based devices.

The device costs \$699 along with a 24-dollar monthly fee for a phone number and cellular data. We are yet to see whether the AI pin will successfully replace phones in the future.



Apple Shifts Production to India: A Strategic Move

By Suchita Agarwalla (10)

Apple, the world's leading tech company, recently launched the iPhone 15 on September 22. This launch was special because it marked the first time in history that "made-in-India" phones were available for consumption worldwide on its debut sales day.

While Apple's primary production hub is currently in China, like many other Western companies, China is no longer the ideal place for manufacturing its products due to the US-China trade war. Companies have started to fear that China-related trade restrictions will rise in the future.

Apple has been expanding its production capacity in India. Beginning October 27, Tata Electronics has been working as an assembler and is in control of manufacturing in India, becoming the first Indian business to be integrated into Apple's supply chain. Not only this, but Apple intends to increase production in India by five-fold, reaching an estimated \$40 billion, or 3.32 lakh crore, during the next four to five years.

India is currently one of Apple's top 5 markets. Producing locally enables it to avoid paying high import taxes, lowering its manufacturing costs for a significant portion of its customer base. With this strategic move, Apple will be able to change its image from that of a high-end luxury brand to that of a more approachable and locally involved business.



This move by the world's biggest company by market capitalization is likely to have a major impact on the Indian economy. It fosters local employment and technological development. Government statistics show that since August 2021, Apple's component suppliers and contract manufacturers have provided a total of 50,000 direct employment and as many as 100,000 indirect jobs. For an emerging economy like India, Apple's presence will be another boost to its GDP.

Modi's 'Vocal For Local' Cry Boosts Retail Sales to 3.75 L. Cr.

By Avani Radheshyam (10)



Prime Minister Narendra Modi has encouraged people to embrace the "vocal for local" culture during festivals by advocating for the purchase of local goods and commanding the spirit of entrepreneurs. This initiative aligns with the promotion of indigenous products, fostering economic growth and self-reliance. The Prime Minister initiated the "vocal for local" movement to empower India's domestic industries.

In response to a post on X (formerly Twitter) expressing support for the "vocal for local" mission, he urged people to make Diwali a celebration of the hard work of 140 crore Indians. He called on them to purchase locally made products and share a selfie with the product on the Namo app.

In his post, he stated, "Indeed, let's make this Diwali about the hard work of 140 crore Indians. It is due to the creativity and relentless spirit of entrepreneurs that we can be #VocalForLocal and further India's progress. May this festival herald an Aatmanirbhar Bharat."

Supporting Modi's initiative, Kiran Mazumdar-Shaw of Biocon shared a video on X, praising the initiative and the creativity associated with the campaign. Many other actors, including Akshay Kumar and Jackie Shroff, reposted the Prime Minister's post, contributing to the impetus of the "vocal for local" movement.

Thanks to the Prime Minister's efforts, people in Jalandhar are prioritizing the purchase of earthen lamps and other local items for Diwali in various markets.

Before the Prime Minister posted the "vocal for local" message, the estimated total sales were Rs. 50,000 crores. This single post significantly boosted actual retail sales to 3.75 lakh crores, setting a new Diwali record. PM Modi brought a new ray of light into the lives of local businessmen and women this Diwali.

Shifting Dynamics: Australia-China in Trade and Tensions

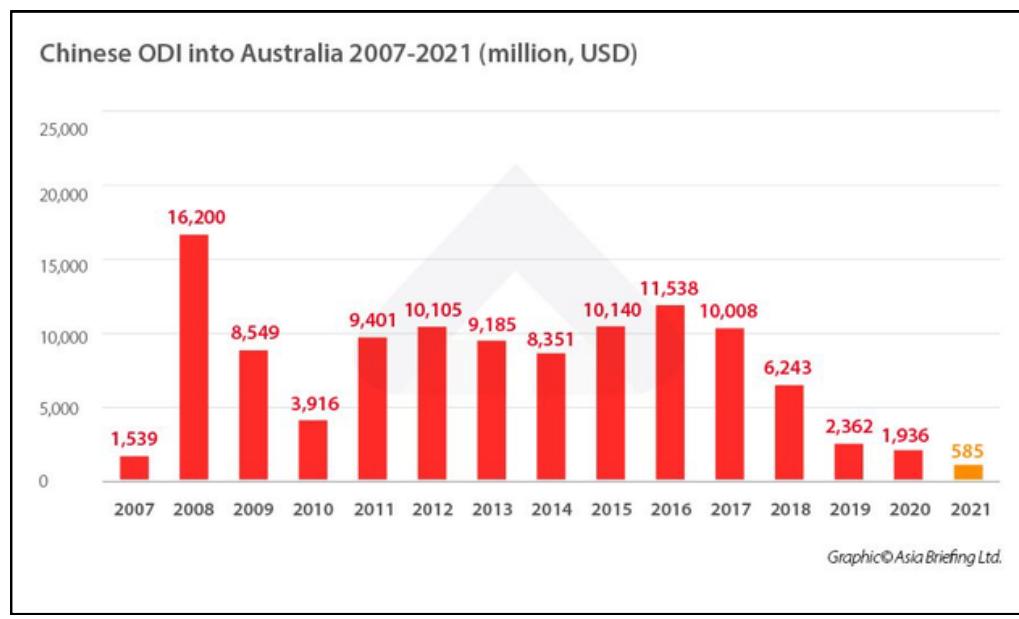
By Venkat Muralidhar (10)

As of August 2021, Australia had achieved a historic trade surplus with China. Fast forward to August 2023, a positive shift in relations occurred as China's Ministry of Commerce announced the removal of "anti-dumping and anti-subsidy" tariffs previously imposed on Australian barley.

The dynamic between Australia and China reflects a pragmatic coexistence of economic interdependence and geopolitical tensions. Despite occasional diplomatic strains, the economic ties between the two nations remain strong. Prime Minister Anthony Albanese's recent visit to China, after a seven-year hiatus in high-level interactions, exemplifies this nuanced relationship. Despite disputes over human rights and national security that have impacted public perceptions, economic interdependence persists. Notably, in 2020, almost half of Australia's exports were directed to China, a significant contrast to the 9% and 5% of US and British exports, respectively, during the same period.

The intersection of economic and geopolitical factors became evident in 2020 when Australia's call for a COVID-19 origin inquiry triggered Chinese tariffs on \$20 billion worth of Australian goods. This economic impact prompted a shift in diplomatic tone, underscoring the delicate balance between the two nations. China, heavily reliant on Australian resources such as iron ore and natural gas, realized the limitations of economic coercion and reversed some imposed restrictions. Analysts suggest that these measures unintentionally brought Australia closer to the United States.

The relationship is further complicated by China's goal of pulling Australia away from its ties with Washington, with an eye on gaining support for trade agreements like the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP). However, this delicate dance between collaboration and competition, particularly in areas like climate change where joint efforts are vital, poses challenges. Australia's balancing act involves maintaining economic ties with China while diversifying and regulating capital flows. The tension underscores the complexity of navigating economic necessities amid geopolitical intricacies, emphasizing the fine line Australia must tread in managing relations with both major powers.



New Therapies Are Improving Lung Cancer Outcomes

By Samridhi Jangid (9)

Lung cancer is one of the leading causes of cancer deaths around the world. Lung cancer patients are now living far longer thanks to important discoveries and innovative treatment approaches in recent times. Among them, two new and promising ones are targeted therapies and immunotherapy.

Targeted cancer therapies involve drugs or other substances that restrict the growth of cancer by interfering with specific molecules that are involved in tumour growth and progression. Unlike traditional chemotherapy, which attacks rapidly dividing cells, targeted therapies focus on the unique characteristics of cancer cells, sparing healthy ones.

For example, therapies may focus on proteins that allow lung cancer cells to multiply rapidly or prevent them from dying. By interrupting these key proteins, targeted therapies can disrupt cancer cell function and make tumours more responsive to treatment.

Some targeted therapies that were approved to treat lung cancer patients include bevacizumab, erlotinib, and crizotinib. These treatments can help keep cancer growth in check for significant periods while giving patients precious extra months or years before facing further treatment.

Immunotherapy is another newly emerging lung cancer treatment option, enhancing the body's immune system to fight cancer. Novel immunotherapy medications for lung cancer, like pembrolizumab and nivolumab, target natural immune checkpoint proteins to help get rid of obstacles that the immune system encounters when trying to fight cancer.

The drug allows the immune response to continue against cancer cells by blocking these proteins. This method is producing positive results in some patients, offering new hope.

Going forward, I believe that both targeted therapies and immunotherapies will likely transform lung cancer treatment. By tackling tumours through multiple mechanisms simultaneously, chances of survival may improve significantly. Lung cancer remains challenging but is no longer an automatic death sentence thanks to medical innovation.

Gym Culture: A Health Hazard or Gen-Z's Latest Craze?

By Tanush Panigrahi (9)

Ask a Gen-Z where their impressive muscles come from, and you'll likely hear a one-word answer: 'gym.' This term has evolved beyond a mere location for physical fitness; it's now a cultural symbol of strength and endurance. However, beneath the surface of this trend lies a concerning statistic: one in ten gym-goers suffer heart attacks during workouts. While the gym is widely regarded as a cornerstone of health and fitness, it's essential to acknowledge the potential risks and ensure that pursuing physical excellence doesn't come at a dire cost.

Recently, Cult Fit experienced a notable increase in its monthly subscriber count following the release of the movie Pathan. This growth suggests that a significant portion of individuals engage in gym activities influenced by their favorite celebrities. Unfortunately, a prevalent misconception persists that associates attractiveness with a bulkier physique, leading people to resort to supplements and steroids for muscle development. However, this approach poses severe health risks, with instances of individuals losing their lives due to such practices.

Understanding and accepting one's natural body state is vital, moving beyond the notion that attractiveness is solely defined by muscularity. While gyms are beneficial for enhancing fitness, moderation is essential. To avoid the risk of long-term health issues, workouts should always be supervised by a professional trainer. Additionally, experts emphasize the importance of rest days in a workout regimen, allowing individuals to gauge their physical limits safely.

The tragic death of Puneeth Rajkumar, a renowned South-Indian actor, at 46, serves as a stark reminder of the potential dangers associated with intense gym workouts. He suffered a heart attack while exercising, an event that profoundly impacted many. His passing has been a wake-up call, leading people to reevaluate their approach to fitness and recognize the significance of balancing gym workouts with appropriate nutrition and rest. This incident highlights a crucial message for gym newcomers: it's imperative to be fully informed about both the benefits and the risks of rigorous physical training.

A New Era of 'The Crown' Following Diana's Death

By Nivedita Saboo (10)



The latest season of "The Crown" revisits the iconic images of Princess Diana, capturing moments like her sitting on a yacht's diving board, embracing her boyfriend Dodi Fayed, and walking through The Ritz in Paris shortly before the tragic underpass disaster that claimed their lives.

In the sixth and final season of "The Crown," the narrative opens during a peculiar period in recent British history, focusing on the tragic underpass incident in Paris where Diana (Elizabeth Debicki) and Dodi Fayed (Khalid Abdalla) lost their lives, creating a moment of profound sadness for the royal family and the nation.

The series, spanning five seasons, initially presented a charming, remote feel while unfolding the story of Queen Elizabeth II's marriage in 1947 to Prince Philip and her reign. The upcoming season diverges from this approach; it starts a year after Diana's divorce from Prince Charles (Dominic West) and concludes eight years later with Charles's marriage to Camilla Parker Bowles (Olivia Williams) in 2005.

The first four episodes of the season, with a second batch scheduled for December 14, delve into events leading up to and following the 1997 catastrophe. This risks conflicting with viewers' memories and other portrayals, such as movies like "Diana" (2013) and documentaries like "Diana and Dodi: The Princess and the Playboy" released this year.

"The Crown" chooses a gentle portrayal of Diana's state of mind in her final weeks, emphasizing her relationships with her ex-husband and new lover. Assessing whether Diana had found emotional peace over 25 years later remains challenging. Peter Morgan's interpretation is just one in a series, offering a comforting perspective as the series moves beyond the Diana era.

Kendrick Lamar's pgLang Debuts the Light Phone

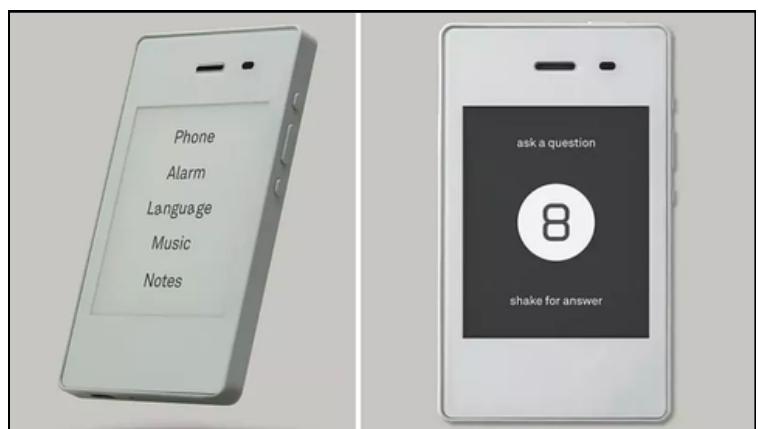
By Rishan Reddy (11)

Kendrick Lamar and Dave Free's forward-thinking company, pgLang, known for its unconventional creative endeavors, has ventured into a groundbreaking collaboration with Light to unveil an innovative device that challenges conventional smartphone norms. The "pgLang for Light Phone" is a paradigm shift—a sleek 4G LTE mobile intentionally stripped of internet browsing, social media, or flashy interfaces.

This unique device prioritizes core functions such as calling, texting, and hotspot capabilities, encouraging users to engage more intentionally with their immediate surroundings. The visually captivating teaser accompanying the launch showcases a baby holding the phone, signifying the return to simplicity and focus.

With a limited release of just 250 units on November 2nd, exclusively on pgLang's website for \$299, the phone has swiftly garnered attention as a highly coveted collector's item. Its limited availability amplifies its allure, paralleling pgLang's trajectory of pioneering collaborations, reminiscent of their recent partnership with Converse for the trendsetting "Driven by Luck" Chuck 70 sneaker line.

The pgLang for Light Phone embodies a deliberate departure from the norm and a conscious move towards mindful tech consumption that challenges the prevailing belief that smartphones must encompass an exhaustive array of features. Its minimalist design prompts a reconsideration of our relationship with technology and advocates for a purpose-driven lifestyle amid the digital age. This device illustrates a meaningful approach to engaging with our technology and the world.



The Drugged Olympics

By Bharat Ambati (10)

Enhanced Games is an organisation conducting an alternative to its counterpart, the “corrupt Olympics”, as written on its website. Enhanced Games believes that “science makes humanity and sports—better and fairer.” It allows athletes to compete, removing the aspect of drug testing and any related protocol.

This is quite a contrast to the Olympics’ drug and doping protocols, where the International Test Agency (ITA) will be responsible for any use of drugs and doping issues. An expert in the field, Dr. Grigory Rodchenkov, who exposed Russia’s state-sponsored doping program, helping over a thousand athletes, has stated that the Enhanced Games is a “danger to health, to sport.” Similarly, critics of the Enhanced Games raise concerns about the ethical implications of condoning Performance Enhancing Drugs (PED) use and the potential health risks associated with their unregulated consumption. They argue that the event could normalise the use of performance-enhancing substances, leading to widespread misuse and potential health hazards for individuals beyond competitive sports.

Are you an Enhanced Athlete?



On the contrary, Aron D’Souza, the businessman behind Enhanced Games, believes that it is time for a science-driven competition, especially for the evolution of sports to “level out the playing field”. D’Souza envisions a sporting arena where athletes are free to explore the limits of human performance through the use of PEDs, supervised by medical professionals to ensure their safety and well-being.

The ethics, security, and future of sports competition are among the disputable issues with regard to Enhanced Games. It has started a global dialogue about the limits of human ability and how technology will affect sports in the future. Notwithstanding the drawbacks, D’Souza has done a good job of highlighting how sports have evolved and how science has been incorporated into them.

Cricket World Cup Final: A Riveting Tale of Resilience

By Nakshath Venkatesh (11)

On the 19th of November, at the Cricket World Cup 2023, the mighty Aussies managed to clinch their sixth title, edging India out in the grand finale. Two cricketing giants with astounding performances throughout the tournament, India and Australia, managed to meet in the final. These teams have had a riveting rivalry in the past, and once again, Australia managed to get the upper hand.

The captain of Australia, Pat Cummins, had won the toss and elected to bowl first. Following their dominant performance with the ball, a game-changing partnership between Marnus Labuschagne and Travis Head took Australia home. From an Australian bowling standpoint, it was Mitchell Starc, Josh Hazlewood, and Pat Cummins who stood out with seven wickets among each other. Concerning the Indian batting, the skipper, Rohit Sharma, fought hard with a quick-fire 47 of 31 balls, leading India to an explosive start. It wasn’t until an exceptional catch from Travis Head that India was headed for a collapse. A stabilizing partnership of 67 runs between Virat Kohli and KL Rahul gave hope to the Indians. However, from that point onwards, India stumbled their way to 240 runs.

At the onset of the run chase, the Indian pacers waged a determined battle, limiting Australia to 47 for 3. However, Travis Head smashed a magnificent ton alongside Marnus Labuschagne’s half-century, stitching a partnership of 192 runs, ultimately leading to inevitable heartbreak for the Indians.

With 42 balls to spare, Australia cruised to a six-wicket win. The stadium, filled with Indian fans, was put into a deathly silence as the Aussies went on to lift the World Cup.



Book Review: 1984 by George Orwell

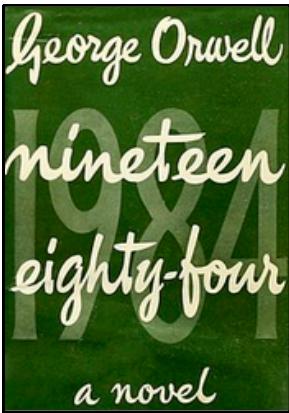
By Saachee Moholkar (11)

War is peace; freedom is slavery; ignorance is strength.

Why do these phrases resound in our minds? Is it because they sound sophisticated? Or memorable?

It is because we live in a world controlled by these words. A world has been predicted before.

George Orwell's timeless novel 1984 offers readers a fascinating and unsettling glimpse into a dystopian future. The novel, first published in 1949, is still frighteningly applicable to our modern world and resonates with harrowing government surveillance, the distortion of reality, and the erosion of individual liberties.



It showcases the ubiquitous party, led by the enigmatic figure Big Brother, who establishes absolute control over every aspect of citizens' lives. It takes place in Oceania, where our protagonist, Winston Smith, works at the Ministry of Truth, altering historical records to fit the Party's transmuting narrative. Winston becomes caught up in a dangerous act of defiance against the repressive tyranny as he struggles with his rising disillusionment with his world and his turbulent thoughts.

Orwell's most prominent ability is to conjure up a world that is both realistic and terrifying. The news, unceasing manipulation of language, the rewriting of history, and continual telescreen surveillance all contribute to an unsettling image of a society where individualism becomes futile and rebellion is met with violent repercussions. The novel presents a prophetic picture of a future where reality and truth are crafted by those in power, a narrative as eloquent as its storyline. The characters in 1984 are incredibly empathetic, imperfect, and human, giving the story a more profound quality.

In the end, Orwell reminds us of the fragility of the mind to overwhelming power. 1984 is a must-read for anyone interested in exploring politics and its effects on the human psyche when there is a lack of scope to revolt.

Book Review: Winter World by A.G Riddle

By Tia Padival (9)

Imagine a world where frost would cover every inch of the Earth in a matter of weeks, where scientists are oblivious of the causes of this catastrophe, where wars break out and only the most intelligent survive. 'Winter World' by A.G. Riddle is a thrilling science fiction novel that explores the concepts of space travel, innovation, and the possible existence of extraterrestrial life.

The story is told from the perspectives of two characters: Emma and James. Although it does get confusing at times, it is an intriguing experience for the reader to deconstruct similar scenarios from different perspectives. However, the personalities of both these characters were so similar that the double viewpoint effect played a minor, almost insignificant role. I would have liked to see more contrast between their ideas and beliefs.

James was the stereotypical know-it-all. He was portrayed as perfect and every other character seemed to reinforce the same idea repeatedly. Although Emma was initially the strong, empowered, and well-informed woman I would love to see, throughout the book, she slowly starts becoming James' "pet," which is quite disappointing.

I thoroughly enjoyed the science and technology aspects of this novel. Riddle introduced several topics of various plausible technologies, including travel to other solar systems, exploration of life on other planets, and fascinating spacecraft. The concepts presented in the book sparked my creativity for new ideas, while my scientific vocabulary grew.

Yes, 'Winter World' does have scope for improvement by adding more conflict and contrast between the characters, but for science geeks (like myself), I would surely recommend giving it a go. If you enjoy all things space, this is the novel for you!



Fostering Innovation: Drone and Research Workshops

By Syhasri Raghavan (9)

Our school places a strong emphasis on more than just academic rigour; it strives to provide students with a diverse array of tools and opportunities. The drones provided by the school serve us students as a helping hand to write research papers, analyse real-time data, and use them to understand our IB subjects better. To ensure that students fully comprehend the capabilities of the drones, the school organized workshops dedicated to helping students understand how the drone works, how to operate it, and their dynamic applications.

The school had brought in two third-party organizations in the field of drones, to conduct workshops. One of them was conducted by the makers of our drones, who taught us about the basic mechanisms of drones, how to code them, and how to operate them. The second drone workshop was held before the Dussehra break, during which we learned about advanced drones, the physics and mathematics behind them, and how to assemble and code them. Additionally, we discussed the potential uses of our drones.

Not only this, but at 10X, we have been focusing on creating and publishing research papers. Research is a crucial aspect of our academics, reflected in our college portfolios. We had online meetings with Srihari Balaji from Columbia University about how to write and publish research, as well as introductory sessions on research papers from our teachers, Ms. Mamata and Ms. Richa.

Following this, students started working on their research papers. Research helps us innovate, learn more, and discover things that the world may not have known before; this is why these courses are so important.

Overall, we have been exploring a wide range of drones and research opportunities within our school. Both of these important tools have a significant impact on our ability to create, learn, and discover. This is why these courses and programmes make 10X a school of innovation.



Student Achievements: November

By Sanvi Kurade (9)

Plaeto Internship

Recently, 10th-grade students Ruhi Beri, Priyamvada Gupta, Venkat Raghav, Bharat Ambati, Amishi Singal, Nivedita Saboo, Siddharth Mitra, and Aarush Kommunuri were accepted to the Plaeto internship program.

Over the course of 6 weeks, they will be working on 2 projects.

Project 1: Personalized shoe designs utilizing AI.

Project 2: Shoe design that embodies the essence of the school.



Junior Academy (NYAS)

Pranav Morisetty (11), led a team of students from around the world to 5th place in the Cognitive Classrooms challenge of the Junior Academy. They developed CogniBridge, an all-in-one, versatile web application focused on bridging the learning gap for dyslexic students using technology in diverse ways.



Stonehill Science Bowl 2023

Team experiMENTAL, comprising Sysha Raghavan (9), Tia Padival (9), and Tisha Sherawat (9), has secured 2nd Place under the category of Top 5 Modern Problems Requiring Modern Solutions during the 2023 Stonehill Science Bowl.



Kenseikan Cup 2023

Veda Sharma (9) secured the Gold medal under the Senior Kumite Category in the 5th Inter School Karate championship, held at St. Francis Xavier's school in Bangalore on Sunday, 26 November 2023.

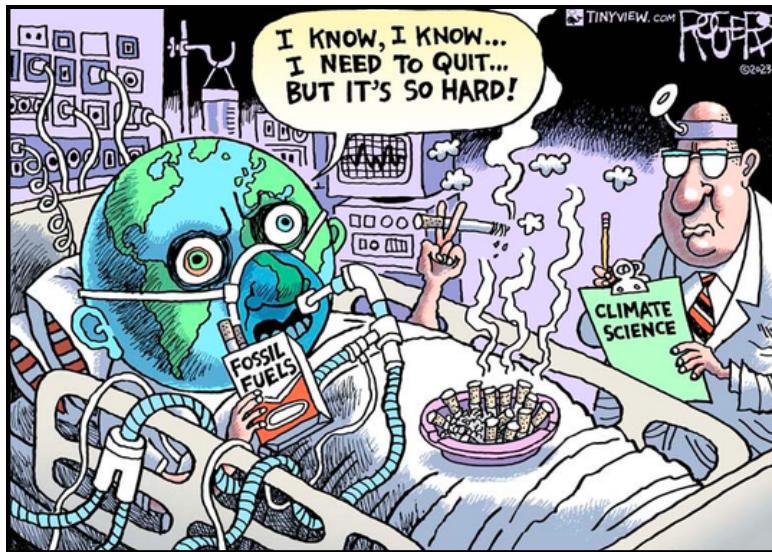
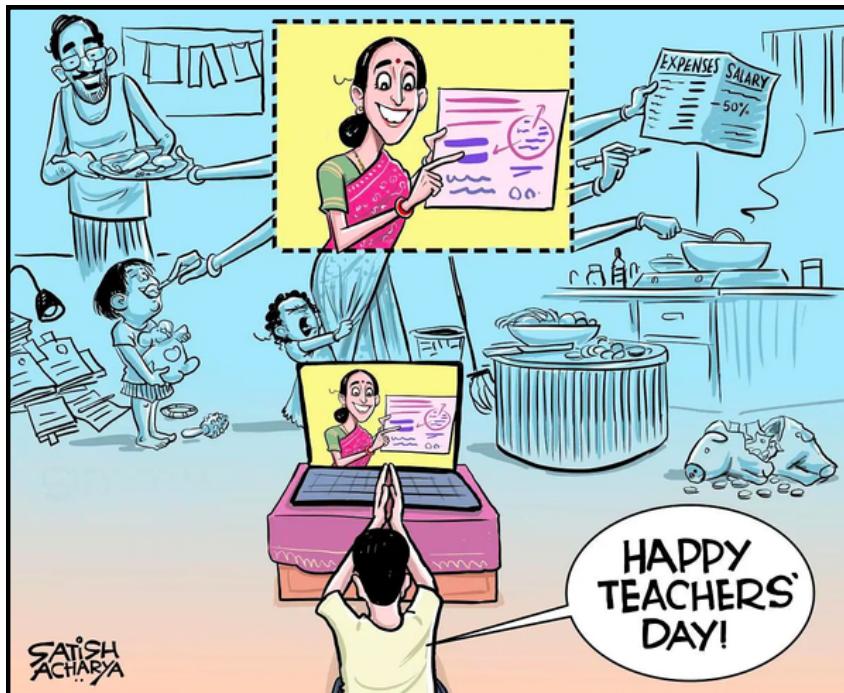
Cult.fit Internship:

Sonakshi Dutta (9) has been accepted to the CultFit Internship, where she will be creating an app on healthcare.

IMUN Internship:

Sonakshi Dutta (9) was also accepted into the prestigious IMUN internship.

Cartoons From Around The World



Puzzles • Riddles**EASY**

I have no feet,
no hands, no
wings, but I
climb to the
sky. What am I?

MEDIUM

What English
word has three
consecutive
double letters?

HARD

A woman shoots her
husband, then holds
him underwater for
five minutes. Next,
she hangs him. Right
after, they enjoy a
lovely dinner.
Explain.

Puzzles • Sudoku

	4	8	9	1	6			
9		2	4	3	1			
2	3		5	8	6	9	4	
	2	3			8		6	
6		8			5			
8	7	9		5			3	
5		8	3			6		
8	6	5		1	3	4		
3			7			8	2	

5	7	4		8	9			
				1		7	8	
	1	8				9		
		7	8	3		4	2	9
4		3		9		6	7	
			7	2		1	5	
3	8					7		6
	6	1				2		
			3		7	5		

Answers

Riddles Answers

Easy

I have no feet, no hands, no wings, but I climb to the sky. What am I?

Answer: Smoke

Medium

What English word has three consecutive double letters?

Answer: Bookkeeper

Hard

A woman shoots her husband, then holds him underwater for five minutes. Next, she hangs him. Right after, they enjoy a lovely dinner. Explain.

Answer: She took a picture of him and developed it in her darkroom.

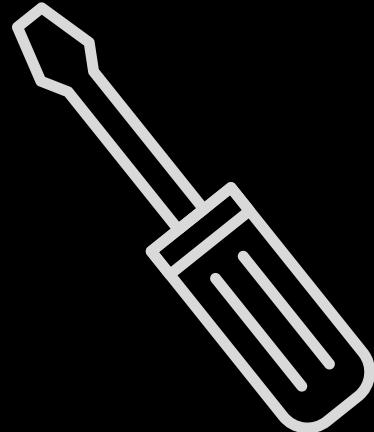
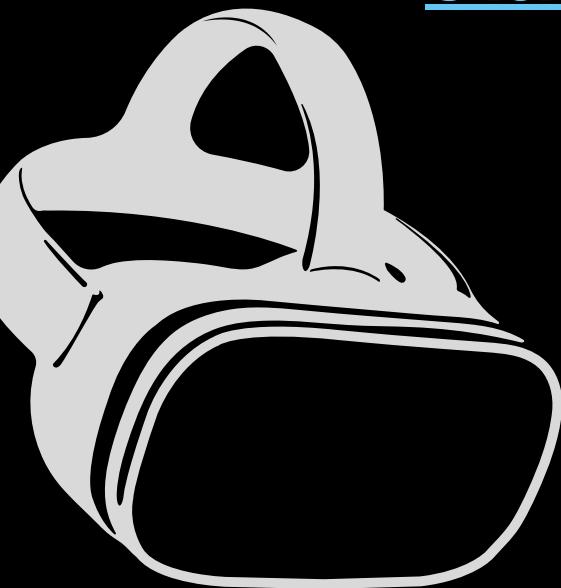
Sudoku Answers

7	4	8	9	1	6	2	3	5
6	9	5	2	4	3	1	7	8
2	3	1	7	5	8	6	9	4
4	5	2	3	9	7	8	1	6
1	6	3	4	8	2	7	5	9
8	7	9	1	6	5	4	2	3
5	2	7	8	3	4	9	6	1
9	8	6	5	2	1	3	4	7
3	1	4	6	7	9	5	8	2

5	7	4	6	8	9	1	3	2
9	3	2	5	4	1	6	7	8
6	1	8	7	2	3	9	5	4
1	5	7	8	3	6	4	2	9
4	2	3	1	9	5	8	6	7
8	9	6	4	7	2	3	1	5
3	8	5	2	1	4	7	9	6
7	6	1	9	5	8	2	4	3
2	4	9	3	6	7	5	8	1

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