

# 10Xpress

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10Xpress

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## Editor's Note

Dear Readers,

We're excited to unveil the latest issue of the 10Xpress! Just like before, this issue provides a diverse range of categories, packed with insightful content covering both school-related updates and real-world affairs.

This issue has a variety of content featuring intriguing topics like:

1.  India-Maldives Tension
2.  Chess Chronicles
3.  Appetite-reducing Vibrating Capsules
4.  India's Role in the Space Race

If you have any feedback about this issue, fill out this [form](#). If you have any queries or concerns, please get in touch with us at [pranav.morisetty@indusschool.com](mailto:pranav.morisetty@indusschool.com) and [bharat.ambati@indusschool.com](mailto:bharat.ambati@indusschool.com), and we'll address them.

Thank you, and have a fulfilling read ahead.

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Bharat and Pranav

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## Tiny Pill, Big Impact: Vibrating Capsules May Prevent Obesity

By Chirag Gowda (12)



In a groundbreaking study, scientists at MIT have unveiled a potential game-changer in the battle against obesity — the Vibrating Ingestible BioElectronic Stimulator (VIBES) pill. This vibrating capsule, designed to harness the body's natural signals, could revolutionize appetite control and provide an alternative to traditional weight loss methods.

After meals, the stomach stretches, triggering sensor cells known as mechanoreceptors. These cells then send signals to the brain, releasing hormones that aid digestion, induce a sense of fullness, and curb the desire to overeat. A team of MIT researchers, led by Shriya Srinivasan, explored the idea of artificially inducing the urge to stop eating by applying vibrations to these stretch receptors.

The VIBES pill is a vibrating capsule containing a motor powered by a small silver oxide battery. Activated only in the stomach, the pill vibrates for approximately 30 minutes, mimicking the physiological response to a full stomach. Testing the VIBES pill on pigs, the research team observed remarkable hormone release patterns similar to those following a meal, even in fasting pigs.

Pigs, given the pill 20 minutes before eating, consumed around 40% less food than their untreated counterparts, showcasing a significant behavioral change. Giovanni Traverso, senior author of the study, emphasized the potential of using the body's natural systems to overcome challenges associated with drug delivery, describing the behavioral change as "profound" and highlighting the pill's ability to modulate the enteric nervous system.

In the near future, hopefully, we will be able to see the drastic effect this pill will have on eradicating obesity.

## Enceladus: Potential Home for Alien Microbial Organisms

By Siddarth Mitra (10)



Enceladus, an icy moon of Saturn, has now been theorised to harbour alien microbes due to the presence of necessary vital compounds. The Cassini Spacecraft launched in 2005 analysed the gas plumes of this moon using ultraviolet rays to prove the presence of phosphates, methane, biomolecules, etc. At the time, these findings were dismissed as byproducts of geological processes. However, recent findings have increased the likelihood that these findings indicate the presence of alien microbes on Enceladus.

This is mainly accredited to Dr. Jonah Peter, a biophysicist at Harvard University who analysed recent findings from the Cassini Spacecraft to detect the presence of hydrogen cyanide. Though this gas is toxic to humans, it is a necessary building block of more complex biomolecules such as amino acids and DNA. Even though previous research proved that Enceladus's ocean is the first observable alien ocean to have all the elements necessary for life, the recent discovery of hydrogen cyanide further cements Enceladus as a prime candidate for harbouring alien life.

To further these highly justified claims, Dr Simon Rittman's research on methane-producing bacteria acts as potential evidence for the existence of alien microbes on this moon. In this research, Rittman takes three methane-producing bacteria found on Earth and exposes them to the postulated environmental conditions of Enceladus. This investigation showed that these bacteria flourished in such conditions, which was a potential justification for why methane was present in Enceladus's gas plumes, amongst other organic molecules.

This research has bolstered the relevance of NASA's EELS project, which involves a 100-kilogram, 4-metre snake-like robot set to explore the cracks on Enceladus, helping NASA analyse the presence of microbial activity and the components of Enceladus's icy ocean.

This recent breakthrough and NASA's upcoming project are new leaps in space exploration that may help us understand extraterrestrial life beyond our imaginations.

## AI Discovers New Material to Replace Lithium in Batteries

By Yi Zou (9)

Lithium, commonly called “White Gold”, is an essential element in our daily lives, with it being a key material in rechargeable batteries and electronic devices. In light of recent events, however, this may be subject to change. Using technology and AI to synthesize new materials may sound like something that only happens in Iron Man. Still, researchers from Microsoft and Pacific Northwest National Laboratory’s recent discovery proved AI and supercomputing’s real potential.



Earlier, Microsoft contacted researchers at PNNL about its new model, Azure Quantum Elements, which combines AI and quantum computing. When the researchers queried the model about possible battery materials that use less lithium, the model generated 32 million possible results, from which 23 materials were shortlisted, using AI filtering based on their stability and conductivity. All of this took place in merely 80 hours. They then finalized one out of the 23 materials and developed a functional prototype. More testing and adjustments are being made at the moment.

This material is a solid-state electrolyte (material that transfers ions between electrodes) synthesized from a combination of sodium and lithium. This solves two major issues regarding lithium batteries. First, the electrolytes in lithium batteries are typically liquid, which leads to safety concerns regarding potential hazards resulting from battery leaks. However, solid electrolytes can reduce this negative implication to a large extent. Second, this new material uses very little lithium. In fact, this new material is estimated to be able to reduce lithium usage in batteries by up to 70%.

There is still a long way to go. Challenges remain, including how solid electrolytes may not be as conductive and efficient as liquid electrolytes. However, this amazing feat still managed to showcase the rapidly evolving ability of AI and its role in defining our future.

## Will India Dominate the Space Race?

By Ruhi Beri (10)

The Indian space agency ISRO (the Indian Space Research Organisation) has become the third agency to station a spacecraft at the Lagrange-1 (L1) point in the Earth-Sun system with its successful spacecraft Aditya-L1. On the 6th of January this year, the spacecraft travelled 1.5 million kilometres from Earth, where it will observe the Sun’s outer atmosphere.

Just five months before this remarkable accomplishment, ISRO had another successful space mission named Chandrayaan-3, which landed a rover on the south pole of the Moon. Not only is India the first country to achieve this feat, but Chandrayaan-3 boasts only costing \$ 75 million to conduct—less than an average blockbuster movie here on Earth.

This new era in space exploration is reminiscent of the space race of the 1960s, where the U.S. and the Soviet Union competed to traverse every inch of the moon that they could—but notably, not its south pole. Unlike the lunar north pole, the lunar south pole has a darker environment, making it harder to land on. However, an important discovery mitigated the disinterest towards the South Pole: water.

Due to the ongoing climate crisis and limited resources on Earth, nations want to search elsewhere for vital resources like water. Space agencies such as NASA and NCSA confirmed the existence of ice on the Moon. Space agencies started planning moon missions to take advantage of the information. Russia had its lunar south pole mission, which was planned to land two weeks before India could, but unexpectedly crashed on its way.

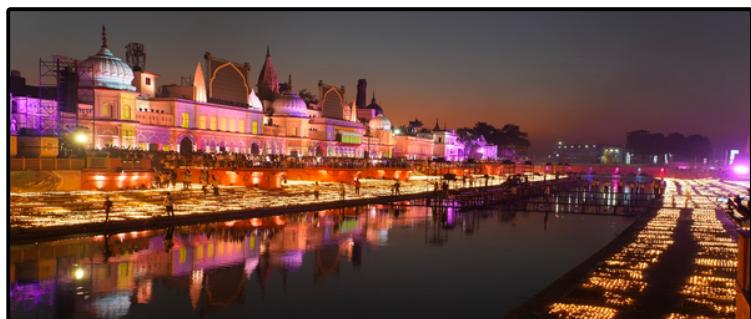
ISRO has already outrun Russia, the space exploration leader and NASA’s former competitor. With ISRO’s cost-effectiveness and fast pace, an Indian-dominated universe could be the future.



## Ayodhya Ram Mandir to Revolutionise Indian Economy

By Suchita Agarwalla (10)

The newly built Ram Mandir in the sacred city of Ayodhya, Uttar Pradesh, was inaugurated and opened its door to devotees on the 22nd of January 2024. This revolutionary investment of 85,000 crores has caught the eyes of people worldwide. The majestic architecture is a remarkable addition to India's culture and a ripe opportunity for businesses and investors.



Before the temple's construction, tens of thousands of pilgrims visited the city at least twice a year. After the construction, this number skyrocketed, with a whopping 5 lakh tourists visiting Ayodhya on the opening day. According to estimates, 3 lakh devotees will visit the temple every day from now on. This is proof that the Ram Mandir initiative by the Indian government will transform the ancient city into a global religious hotspot, bringing with it a host of economic inflow for the nation.

Stock market research confirms that Ayodhya will reach such heights of economic prosperity and will surpass Vatican City and Mecca, major pilgrimage sites, in terms of the number of devotees visiting the place. The Ram temple, although the key reason for this, is not the only cause for the foreseen advancements. The makeover includes expanded roads across the city, a new airport and railway station, and a 13-kilometre road called Ram Path leading to the temple. Moreover, multinational hotel chains like Radisson and Taj are among the 50 upcoming hotels and homestays in the city.

There could not have been a more powerful start to the new year than the inauguration of a sparkling new temple, which has already proven to be auspicious for the country. Ayodhya's land values have already been boosted, and plans are in place for further attractions to be built around the new temple. The monument will inevitably revive India's culture, unify the nation, and revolutionise the economy.

## Microsoft Dethrones Apple as Global Market Cap Leader

By Avani Radheshyam (10)

Microsoft, the largest global computer software vendor, has recently ascended past Apple to secure the esteemed title of the World's Largest Company by market capitalization. This feat is directly linked to their strategic emphasis on the burgeoning AI sector. Fueled by burgeoning market interest and a surge of investors, Microsoft's dedication to the AI industry has propelled them forward in distribution and technological leadership.

The integration of OpenAI within Microsoft's productivity software suite has sparked significant market surges, pushing the company market value to an unprecedented increase of 1 trillion dollars.

According to the London Stock Exchange Group, towards the end of 2023, Microsoft's market value was at an all-time high of \$2.887 trillion, beating Apple, which was valued at \$2.875 trillion at the time.

Meanwhile, Apple is dealing with tepid demand even with the recent release of the new Vision Pro, a mixed-reality headset that was supposed to have marked Apple's biggest launch since the iPhone in 2007. Apple is particularly struggling in China due to the slow economic recovery from COVID-19 and high competition from companies such as Huawei.

In the coming year, analysts predict that Apple's revenue will increase by a mere 0.6%, whereas Microsoft's revenue will shoot up by a whopping 16%. It is anticipated that Microsoft could outperform Apple by the end of 2025.



## Trouble in Paradise: The India–Maldives Tensions

By Syhasri Raghavan (10)

The sudden standstill of Indian tourists traveling to Maldives, accompanied by a major Indian travel agency suspending all transportation to the country, highlights the strain in Maldives–India relations. One-third of the Maldives' income originates from tourism, and the abrupt halt of incoming Indian tourists and airlines exhibits a clear statement — the Maldives is still dependent on India despite its taking an anti-India stance. The recent conflict, stemming from a decade-long struggle between the two nations, marks a breaking point in geopolitical and international relations.



Mohammed Muizzu, the current Maldivian president, created tension in the Indian–Maldivian relationship when he campaigned against India for elections, criticizing India's interference in their country and demanding that it should not "meddle" in their economic and security matters, regardless that India provides investments and aid to Maldives, as well as funding and training their military.

When Muizzu was appointed as president, he immediately demanded that India remove its troops from Maldives, to which Prime Minister Narendra Modi obliged. Days after, in January 2024, Muizzu met with the Chinese government (who had supported Muizzu's anti-India campaigns) and signed more than 20 agreements with them. As a response, Modi publicized the Lakshadweep Islands, a union territory in India that, if developed, could surpass the Maldives in tourism.

This promotion was met with much anger by several Maldivian politicians, who responded with derogatory remarks towards Modi, including calling him a "clown". Luckily, the Maldivian parliament swiftly intervened to maintain diplomatic ties. In a way, this is ironic— the Maldivian president demands that Indian troops depart while ensuring diplomacy for India to continue investing in Maldives.

Two days ago, a 14-year-old boy in the Maldives died from a stroke and brain tumor, allegedly due to Muizzu's reluctance to send the boy on an Indian aircraft to receive help, highlighting the severity of the struggles between the two countries.

Looking ahead, one can speculate that Muizzu's propositions may face mixed opinions and backlash from the Maldivian parliament. If he fails to win the Parliamentary elections in 2024, there will be many challenges for the Maldivian president. At present, India–Maldives tensions are still high, but the potential for peaceful international relations still remains.

## Study Finds Your Water Bottle Contains 2,40,000 Plastic Pieces

By Nivedita Saboo (10)

A liter of bottled water contains nearly a quarter of a million pieces of nanoplastic on average, according to new research published this week in the Proceedings of the National Academy of Sciences.

The presence of microscopic plastic pieces in bottled water has long been acknowledged, but the precise quantity and types remained unclear until researchers from Columbia University and Rutgers University conducted a detailed analysis. In a study published in the Proceedings of the National Academy of Sciences on Monday, the researchers documented how the particle level is between 1,10,000 and 4,00,000 plastic pieces per liter, averaging around 240,000.

The study used a newly developed laser technology to find even the smallest fragments. This increased the number of detectable plastic particles in bottled water by a factor of more than ten and, in some cases, 100, according to Time.

"Millions of tons of plastic are produced worldwide each year," said Douglas Walker, an analytical chemist at Emory University who was not involved in the new research. Microscopic particles from those plastics can end up in food and beverages in the manufacturing process — they might be introduced through plastic tubing used in machinery, for example — or leach in from packaging such as plastic bottles.

But the scientists still have not answered the million-dollar question — can these nanoplastics harm health?

"That's currently under review. We don't know if it's dangerous or how dangerous. "We do know that they are getting into the tissues (of mammals, including people) ... and the current research is looking at what they're doing in the cells," said study co-author Phoebe Stapleton, a toxicologist at Rutgers, to AP.



## The Applications of 3D Printing in Medicine

By Tanush Panigrahi (9)

The Indian Government's recent approval of 3D-printed parts in the medical industry marks a significant milestone in integrating innovative technologies into healthcare. After years of consideration, this decision reflects a recognition of the potential benefits that 3D printing can bring to the medical field.

The medical industry has witnessed a range of applications for 3D printing, with notable examples including prosthetics, implants, and transplantation solutions. The cost-effectiveness and one-time expenditure associated with 3D-printed prosthetics have led to their adoption in various settings, such as the CUPA animal shelter. Here, prosthetics crafted through 3D printing have proven instrumental in aiding disabled dogs, showcasing affordability and customization.

In a rural hospital in Uttarakhand, 3D printers are employed to produce artificial discs for Herniated Disc (Slipped Disc) cases. This application not only showcases the precision of 3D printing but also underscores a 20% reduction in annual costs, illustrating the financial advantages of this technology.

The reluctance to grant legal approval for 3D-printed organs, particularly for transplantation, stemmed from concerns regarding the potential risks associated with such innovations. Creating a 3D-printed heart with muscle-like properties prompted scrutiny from the government, highlighting the ethical and safety considerations inherent in this field.

Legal approval was granted upon the assurance that each 3D-printed organ component would undergo rigorous simulation testing before application to actual patients. This cautious approach addresses concerns related to accuracy and safety, paving the way for the broader adoption of 3D-printed organs in medical settings.

As hospitals increasingly incorporate 3D-printed solutions, particularly in cases where traditional organ donors are scarce, the transformative potential of this technology becomes evident. As demonstrated by the stringent testing protocols, the balance between innovation and safety sets a precedent for responsible integration of cutting-edge technologies in the medical domain.

## A Britisher's Visit to India: Dua Lipa Explores Rajasthan

By Tisha Sehrawat (9)



In a pleasant turn of events, worldwide music sensation Dua Lipa has chosen to end the year 2023 in the culturally rich country of India. The Grammy-winning performer turned to social media to share snippets of her beautiful holiday, with a focus on her time in the colourful state of Rajasthan.

Dua Lipa's affection for India was powerfully portrayed in her Instagram images, where she exuded excitement dressed in traditional Rajasthani clothing against the backdrop of the state's architectural marvels. The singer expressed her appreciation for her warm welcome in India, emphasising how privileged she felt to have seen the country's vast and wonderful cultural legacy.

Rajasthan, noted for its stately palaces, bustling bazaar, and kaleidoscope of colours, was unquestionably the highlight of her Indian trip. Dua Lipa's Instagram page became a canvas for the exquisite beauty of Rajasthani culture as she visited prominent locations such as the Hawa Mahal and the Amer Fort in Jaipur.

The singer immersed herself in the local traditions, demonstrating a true respect for Rajasthan's rich tapestry of history and culture. Beyond the regal enchantment of Rajasthan, Dua Lipa's Indian voyage took her to the busy streets of Delhi. Her social media posts provided insight into her research of Delhi's cultural sites, leaving followers impressed by the artist's interest and admiration for varied world experiences.

As 2023 came to a close, Dua Lipa's Indian adventure left an everlasting impact on her personal recollections and the hearts of her fans.

## 2024 Golden Globes: Marred by Critique and Controversy

By Venkat Muralidhar (10)

The 2024 Golden Globe Awards faced challenges, including a one-year test run on CBS, scandal aftermath, and no well-known host. The Hollywood Foreign Press Association (HFPA) had a rebuilding year following a strike and amid rumours of moving to stream. The critical issue was finding a host, with A-list personalities staying away due to the HFPA's reputation.

Jo Koy, a successful but not widely recognized comedian, was a late addition as the host, announced weeks before the ceremony. However, optimism surrounding his selection faded during the opening remarks. Koy's performance was criticized for its mishmash of lazy jokes, leading to a disappointing start for the event.

Despite the beginning, the evening had moments of improvement. Some presenter banter was enjoyable, and certain winners were supportable, though predictable. However, the approach to presenting segments was deemed bizarre, with tight and dark two-shots creating an atmosphere of cramped smallness.

Honorary awards were absent, and new awards for stand-up comedy and "cinematic and box office achievement" were introduced. The latter category, poorly defined, went to Barbie, raising questions about the award's credibility. The stand-up category seemed geared toward Netflix, with Ricky Gervais winning for his special "Armageddon," but Gervais was absent, possibly due to not hosting.

The ceremony was criticized for its desperation, with a messy and irregular program undermining the grandeur typically associated with such events. Jo Koy's opening performance suggested a potential disaster, though the Globes managed to rescue itself from complete calamity. The overall sentiment was one of sweatiness, unbecoming of an awards show that was once a flawed jewel of the season.

In conclusion, the 2024 Golden Globe Awards faced numerous challenges, from a lack of a prominent host to questionable award categories. While the ceremony avoided complete disaster, it was criticized for its desperate and messy nature, raising concerns about the Globes' future.

## Tata Steel 2024: Chess Battles Underway in the Netherlands

By Nakshath Venkatesh (11)

The Tata Steel Chess Tournament 2024, a predominant event in the global chess calendar, is being hosted in the Netherlands. With its rich history and an event with prestigious players worldwide competing for the podium, it contains two parallel competitions: The Tata Steel Masters and The Tata Steel Challengers.

Both categories contain fierce competition, meaning players must make their moves consistently and circumspectively. The Masters Tournament contains vigorous competition from various countries, including Ding Liren from China and Ian Nepomniachtchi representing Russia. The tournament, organised in Wijk aan Zee, follows a single round-robin format, comprising 14 players with 13 rounds, each facing the others once.

Simultaneously, the Challengers event is a battleground for promising young players, with a mix of experienced competitors. This tournament is a guiding opportunity stone for emerging talents and eyeing a future spot in the prestigious Masters category. The intense competition nurtures a future terrain for international-level chess games.

Lots of thought has been put into selecting the right venue for the competition. The Netherlands, a country with the highest GMs per square kilometre and a deep respect for chess, is an ideal host for such a prestigious event. Chess enthusiasts around the globe are actively following the event, either in person or through online platforms, adding to the global appeal of the competition.

In conclusion, the Tata Steel Chess Tournament 2024 is not just a battlefield for players but also a celebration and showcase of chess as a global sport. With this competition, the edition promises to be a memorable chapter in the minds of players and other direct and indirect stakeholders, creating a strong history. As the battles have opened, the fans worldwide are eagerly anticipating the final podium results of both competitions.



## World Champion Ding Liren Returns to the Chess World

By Neil Daga (10)

In 2023, Ding Liren was crowned the world champion after a grueling 18-game match against grandmaster Ian Nepomniachtchi. The world champion then went on to play the Superbet chess classic, finishing in the 8th position, likely burned out from his previous performance in the world chess championship.

Shortly after the Superbet chess classic event, Ding Liren withdrew from the Superbet Rapid & Blitz and the Global Chess League in June. The chess world was buzzing around Ding Liren's unexplained absence — When interviewed, Ding Liren explained, "I can't find more fun, and I want to find new happiness elsewhere." He also clarified that he would not play in any more tournaments in 2023.

Ding Liren was interviewed by the official Chess.com team nearly eight months after the world chess championship, and he expressed his interest in the upcoming Tata Steel Chess Tournament. Though Ding didn't go into much detail, he clearly expressed that he spent his time off recovering, more psychologically than physically.

Ding played in the Chinese chess king competition the weekend before the interview but ended up in 4th place. When asked whether this made him doubt his upcoming performance in the Tata Steel chess tournament, Ding said, "Mentally, I am ready, but I am not sure if I can show my best chess".

In the current standings of round 8 of the Masters Tata Steel Chess Tournament, Ding Liren stands at the 11th position out of 14 players, with a score of 3.5/8, dropping to an official rating of 2769: the first time his rating dropped below 2770 since March of 2018.

After this performance in the Tata Steel chess tournament, Ding Liren's upcoming plans remain to be seen — chess fans worldwide wish the world champion the best in his future endeavors.

## Movie Review: Eyes Without a Face (1960)

By Saachee Moholkar (11)

Imagine living with a girl whose face will forever be encompassed by a white, eerie porcelain mask. Her ageless, ethereal face never to be seen again. Or so you think.



In a secret underground laboratory, a surgeon embarks on a desperate and grotesque journey to restore his daughter's beauty, after her face is left disfigured in a car accident.

This is the premise of Georges Franju's 1960s masterpiece, 'Eyes Without a Face'. The film raises profound questions about the ethical boundaries of scientific experimentation and the pursuit of beauty at any cost. The film's outstanding black-and-white cinematography and sinister sound design create an overwhelming atmosphere of terror. Eyes Without a Face has rightfully earned its place in the pantheon of all-time great horror films. Praised for its groundbreaking special effects and its exploration of ethical dilemmas, it's a film that challenges our perception of beauty, questions the boundaries of science, and explores the darkest corners of the human psyche.

Eyes Without a Face taps into the viewer's fears by presenting us with a terrifying situation because it involves a central character living with horror. No matter how many weapons a killer may have or how psychotic one's thoughts may be, according to the surgeon, nothing compares to having to go to bed every night with a face that is scarred beyond redemption. This premise is given conviction through a stark and constantly foreboding atmosphere, resulting from Eugen Shuftan's magnificent cinematography. The film has a crisp and clean look, which brilliantly offsets the macabre scenes that it is capturing. The result is a film never to be forgotten by any modern-day horror fanatic.

## The Good Doctor: A Prescription for Compelling Television

By Tia Padival (9)

We live in a world where our knowledge of medicine and biotechnology is developing exponentially. We have transitioned from bloodletting to the surgical placement of organs from various animal species into human bodies. With a scientifically accurate TV series like "The Good Doctor", we will finally bring light to all the medical advancements, risk-taking and mistake-making involved in providing patients with top-notch treatment.

Whether you plan to pursue a career in medicine or not, the life lessons in The Good Doctor about dealing with pain, maintaining morals, and moving on from the past will help you navigate through the struggles of life.

I thoroughly enjoyed the humour, plot twists, and character personalities. The main character, Shaun Murphy, is an autistic resident in San Jose Hospital who faces numerous social difficulties due to his atypical identity. The show stresses the fact that we are all unique in our own ways. Nevertheless, we must remember to put our empathy into action no matter the situation. I admire the way Shaun grows during the 6 seasons. The metamorphosis from an introverted young boy to a thoughtful, compassionate man is truly inspirational. The actor, Freddie Highmore, did an outstanding job expressing these complex emotions.

The only issue worth noting is that the episodes after the third season started becoming monotonous. The characters' challenges kept dragging on to the point where it became depressing for the viewers. When Dr. Glassman, a neurosurgeon, finds out he has attained a life-altering disease, the entire season is focused on his inability to cope with his emotions. Even though it is a critical component of the show, it does get repetitive after a while.

Yet, the show still holds a special place in the hearts of many. The incredible acting and intricate plot make watching this show worthwhile!



## A New Milestone: Competitions and Opportunities at 10X

By Syhasri Raghavan (9)

Our school has achieved a new milestone this month by hosting an innovation competition and collaborating with NASA on an exciting program. The students showcased their unique talents, creativity, leadership, and critical thinking by participating in and hosting these events, creating a significant mark on our school's achievements.

The innovation competition, called The Next Big Innovator Challenge, was organized by StartupYou with the purpose of allowing young minds to showcase their creative abilities. This competitive event lasted for approximately one month, in which participants collaborated in groups of five and competed in numerous rounds, passing through multiple stages of elimination successfully. In the final round, the teams had to propose an original and creative solution to global issues relating to the 17 Sustainable Development Goals. The winning team, a group from grade 9 composed of Sanvi Kurade, Tanush Panigrahi, Yi Zou, Yajath Shinde and Advaith Palam, developed a solution to monitor and treat cardiac arrest as soon as possible by creating a portable defibrillator.

Following this, the program our school has undertaken from NASA elevates this milestone even further. This opportunity allows students to interact with cameras placed on the International Space Station and take pictures of the Earth from the ISS. Students will be able to experiment with technology, learn more about astrophysics and photograph the Earth from a unique perspective of space. This incredible interactive and educational experience is sure to pique the participating students' curiosity and sense of exploration.

The significant events that have taken place at 10X have clearly demonstrated our prioritization of innovation, collaboration and academic pursuit. More competitions and projects like these will certainly come in the future and will definitely have a positive impact on all of the students, allowing them to foster creativity, critical thinking, leadership and more unique and vital qualities.



## Student Achievements: December, 2023

By Sanvi Kurade (9)

### SUY: The Next Big Innovator Challenge

The Startup Team, Yi Zou, Yajath Shinde, Sanvi Kurade, Advaith Reddy, and Tanush Panigrahi of Grade 9 had successfully claimed first place in Startup You's Next Big Innovator Challenge, The Startup Showdown.

The group had to create a business pitch on the UN Sustainable Development Goals. The team hopes to make a great impact on the industry of emergency healthcare with their Startup, CardioPro.



### EY STEM App Challenge for Girls

Ernst & Young EMEIA (EY) Limited is an English company limited by guarantee and is the principal governance entity in EMEIA for the EMEIA Firms. But EY doesn't just limit their work to law: they fund and invest in projects that better society.

In recent weeks, the 4 groups from 10X International made their way to the final round of the school level. The groups consisted of:

1. Ruhi Beri and Kena Nayak from Grade 10. Their project, Period Bear, focuses on Menstrual Health in Rural areas.
2. Nivedita Saboo and Avani Radheshyam from Grade 10 with the innovative project of Nanotech Solar Paint. This revolutionary paint would be able to collect solar energy and convert it into energy.
3. Sanvi Kurade and Sonakshi Dutta from Grade 9 with their project, 'HydroBomb'. This is an app for checking the health of lakes in Bangalore and working for the conservation of Bangalore's natural lake habitats.
4. Riya Kaulwar and Tisha Sehrawat form Grade 9 with their project, with their app, 'Choice-X, your personalized career compass'. This app simplifies your career choices by using the power of AI.



### World Scholar's Cup

Yi Zou and Advaith Reddy from Grade 9 participated in the World Scholar's Cup hosted at the Greenwood High International School. The Duo participated in four different rounds, which were:

1. The Scholars Challenge
2. Collaborative Writing
3. Debate
4. Scholars Bow



Yi Zou successfully won 6 gold medals and 5 silver medals, while Advaith received 5 gold and 6 silver. The final global round of the competition is set to be in December 2024 in Dubai.

## Cartoons



Adaptation to Climate Change



Mountain Biking



Wealth Accumulation

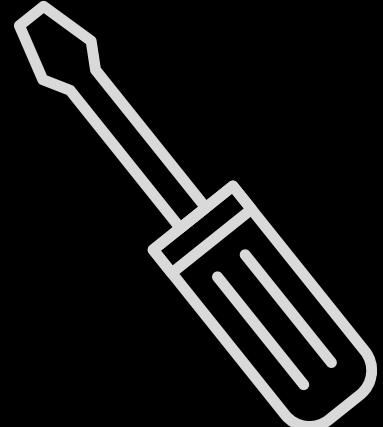


Tent in Gaza

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