

# SCHOOLASTIC NEWS

IMPACT-FOCUSED SCHOOL COMMUNITY MAGAZINE

Evolution in  
Learning

Education

Vedic Mathematics  
for Global Citizens



## TRENDS IN EDUCATION IN 2022



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# Editorial Lead

## *The issue is all about what's new in education for 2022*

The publication of this edition of Schoolastic News magazine ignites pleasure and satisfaction in me to witness the monumental strides gained by Indian education when the winds bearing the deadly Coronavirus and Omicron variant, sweeps the world. The nationwide struggles and a series of disruptions faced by millions of children to continue education led to the forced induction of new digital information and communication technologies. The teachers' community actively stepped up to the inevitability of digital classrooms and upheld the need to utilize technologies to maintain the continuous learning of their students.

The re-opening of schools under the strict guidelines and blended learning mode brought a little relief to schools, students and parents. But there are miles to go as this harrowing period in national history continues to impact and hamper learning of millions.

FairGaze's Schoolastic News Magazine opened a window of opportunities for the students and the whole school community. The editorial board enjoyed making this magazine for students and educationists to express their innermost thoughts. It doubled our enthusiasm seeing the budding writers voicing their feelings on various topics of interest. With the beginning of the New Year 2022, we hereby came up with the New Trends in Education that were introduced to us before this year but will be implemented as the New Learning System from this year. May it be the parental guide or the new virtual - blended learning guides. Social and Emotional Learning (SEL) will play an intrinsic factor in the domain of holistic learning norms wherein conventional classrooms and remote – from home learning looks irreversible in the post pandemic era. The issues and trends that are certain to transform education in 2022 across the spectrum, are discussed in this issue.

We thank **Ms. Sushma Punia** Founder Principal, BLS World School Greater Noida West, Founder Principal, Blas International School, Hathras, UP, and CBSE Master Trainer; who enlightened us with the detailed new learning trends through the topic **"DIFFERENT APPROACHES TO LEARNING – Transforming the Industry"**.

We are also appreciative towards Mr. Manu Tripathi who is International Trainer (Vedic Mathematics, NLP, Hypnotherapy, Memory), and APS to ex MoS Women and Child Development Minister, Govt. of India for bringing us in light to the topic **"Vedic Mathematics for Global Citizens"**.

My thanks are due to the senior leadership of the Schoolastic News for their faith in the editorial board. Students from 10 states across the country and pioneer educationists have been of immense help and have brought this edition alive with their rich contribution; which we proudly present, for your reading pleasure.

In the end, will conclude by quoting a very famous quote from the American Actor **Will Smith** who stated-

**"No matter how talented you are, your talent will fail you, if you're not skilled.**

**Skill is achieved through practice.**

**Work hard and dedicate yourself to being better every single day."**

**Best wishes for a Happier New Year!**

**Bhavna Sharma**

Editorial Lead

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CLIMATE ACTION

# RENEWABLE ENERGY: WAY TO FUTURE



Renewable energy itself states that it's the energy that is utilized again and again and replenished by natural resources. The energy from natural resources such as sunlight, wind, tides, waves, and geothermal heat are stored to generate renewable energy to lessen the pollutant energy sources. For the future, renewable energy must have abundant storage as the energy stores will be expensive since the sources are not sufficient to run the 24\*7 electricity. Still, these sources can help in the renewable energy to decentralized generation and consumption.

Renewable energy shortly; will be acknowledged as the most suitable electricity generation if the system is well-planned. Even now the solar energy is in good demand and to pair it up, windmills have also contributed to

decentralizing generations. Some of the great Private and Public incentives by renewable energy are:

- Rooftop Solar
- Smart Energy Management
- Electric Vehicle Charging Infrastructure
- Solar Agricultural Pumps
- Productive Use Appliances

"Renewable energy shortly will be acknowledged as the most suitable electricity generation if planned well."

Atomic energy, solar energy, energy from wind, and biofuels are just a few of the promising alternatives for a cleaner and

greener future. Other relatively new forms of energy such as fuel cells, geothermal energy, and ocean energy are also being explored. Renewable energy will affect the capital but it will also have a greater impact on the future life of electricity. The pollution will be reduced to a greater extent as the renewable energy generating electricity will be solely run-on fossil fuels and natural resources. Lastly, I would like to conclude by quoting **"Arnold Schwarzenegger's quote - "The future is green energy, sustainability, and renewable energy."**

By:  
Anika Mahajan  
Class - 9

Maharaja Harisingh Agricultural  
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Edited by: Menka Sharma





## CLIMATE LITERACY- NEED OF THE HOUR

Climate is not a subject that we need to learn from books. But is an understanding factor that we need to work on for its impact. Climate literacy comes from the human activities that impact climate and vice versa. Schools have always been the path for us to indulge in climate literacy by organizing tree plantation programs.

The basic climate literacy also comes from our way of thinking, our actions towards the climate. Along with trees, water and soil also have their climate literacy. When it comes to climate literacy, we need to think beyond tree plantation as just planting trees is not much of a help for the future. Better land soil, a better water

system is also an essential integral part of climate literacy. So, saving the groundwater will ensure the quality of soil and thus, it will build a strong connection between nature and humans.

On the rapid climate change, Marshall McLuhan has quoted - "There are no passengers on Spaceship Earth. We all are crew." His statement clearly states that we humans are the master to nourish our climate in every way possible. We humans are meant to nurture it with all the care and possible means we can.

Since global warming has always been an issue; that we have been facing for

many years now, and so related measures are also put into action on an immediate basis. But still, the danger lingers around when it comes to climate change. So, to overcome this situation, we need to do very serious thinking on climate protection. Lastly, I would like to conclude by saying that climate literacy is our personal and social responsibility that we need to work on with more drastic steps.

By:  
Shreyash Gouda  
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New Era Progressive School,  
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ECONOMICS

# RISING INEQUALITY: A MYTH OR REALITY



In recent times, where folks live, they don't have to look away from confronting the difference of inequalities. Numerous forms of problem that may outline our grappling inequalities have enraptured to the forefront of the many world policy debates as an accord has emerged that everyone ought to relish equal access to chance. 'Leave nobody behind' is the rallying cry for the 2030 Agenda for property Development.

Overall, since the Nineteen Nineties total world difference (inequality across all people within the world) declined for the primary time since the century. Reinforcing the trend, we have seen a large financial gain difference between countries decline. However, the financial gain difference among countries has increased, and this can be the shape of different folks feel every day.

Inequalities don't seem to be solely driven and measured by financial gain; however, these are determined by different factors - gender, age, origin, ethnicity, disability, sexual orientation, class, and faith. These factors confirm inequalities of chance that persist

continuously, among and between countries. In some components of the globe, these divides have become a lot of pronounced. Meanwhile, gaps in newer areas, like access to online and mobile technologies, are rising. The result is a fancy mixture of internal and external challenges that may grow over the following twenty-five years.

**Myth #1:** Difference isn't thought-about a drag by most people, UN agencies see it as a good part of the accord. For many of Germany's political and economic elites, the social difference may not be a pressing issue. However, in line with surveys, seventieth of Germans believe the social difference is simply too high. They swallow persistent fears and issues regarding the shortage of opportunities obtainable to them. They want their operations more durable yet earning less. They don't believe that the social insurance system can defend them from an enormous decline in their quality of life if they get sick, lose their jobs or retire.

It is their potential that doesn't perceive, however rather the coterie of call manufacturers in politics, business, and therefore media of UN agency doesn't seem to be obtaining the story straight?

**Myth #2:** Difference is rising with a greater aspect as a result, the wealthy managing committee is urging to have a much larger share of the pie. These days Germany is one of the many unequal countries within the industrial world. This comes as a surprise, as the Federal Republic of Germany had long pursued economic and social policies of moderation and distribution. Thus the Federal Republic of Germany has been facing three major "inequality puzzles". The primary could be a wealth puzzle: the Federal Republic of Germany has one

in every of the very best per capita financial gain levels within the world, and German voters have a high propensity to avoid wasting. Thus this could logically mean that German voters can accumulate monetary wealth, providing a security web for retirement in one every of the foremost quickly aging societies within the world.

The facts, however, paint a different image. The monetary wealth of the common social unit in the Federal Republic of Germany is altogether one amongst {one in every of} rock bottom in all of Europe, four amounting to but 1/2 that in different monetary unit countries. Such wealth includes money, savings, and different monetary assets, realty, sturdy goods, insurance, and therefore the personal possession of companies. This monetary wealth among German households is one of the rock bottoms in Europe these days but has shrunk over the past fifteen years.

How do these ostensibly contradictory facts match together? A part of the solution is that the Federal Republic of Germany has the wealth difference of any country within the entire monetary unit space at an A level like that of the US. The lowest four-hundredth German households have barely any web wealth, considering monetary debt and different obligations. And in no different country of the monetary unit space does the richest 10 percent of the population have a larger share of web wealth than in the Federal Republic of Germany.

By:  
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Edited by: Menka Sharma



ECONOMICS

# THE PROBLEM OF UNEMPLOYMENT IN INDIA



**U**nemployment is the position where people are willing and able to work but are unable to get work. Every year thousands of students graduate but not everyone got employed. People invest thousands and lakhs to achieve the most prestigious education possible but with no end to an employed future.

Since 2010, India's unemployment rate increased tremendously and that came to a halt in 2019 with the rate increasing by 5.27%. Unemployment in India is still prominent due to many reasons, some of which are-

- **Population-** due to India's massive population the ratio between employment opportunities and employment seekers has increased. Leading to massive unemployment since the workforce required is less than what can employ.

- **Caste system and other discrimination-** Even though the constitution of India forbids any discrimination against caste, creed, or color India still finds itself shoulders deep in discriminative activities.
- **Slow-growing economy-** Due to the difference in the growth of the economy and workforce the gap of unemployment is increasing. The economy has been growing slow thus not creating as many opportunities.
- **Increase in institutions and universities** - Since the last 10 years, universities and institutions have expanded tremendously whereas employment has only decreased with the expansion of technology.
- **Movement barrier-** Due to responsibilities and attachments many laborers and professionals do not migrate in

hope of finding a job nearby which could both earn them money and also not leave their family.

- **Disguised unemployment-** Many people are employed at places that do not require that much manpower and yet due to so many people working there, it in turn, increases disguised unemployment.

To increase employment and decrease unemployment, this issue has to be dealt with at the structural level and more opportunities have to be created for the backward class.

By:  
**Kanak Kotnala**  
Class - 12  
Gaur International School,  
Greater Noida



# DIFFERENT APPROACHES TO LEARNING TRANSFORMING THE INDUSTRY

Ms Sushma Punia

Founder Principal, BLS World School Greater Noida West

Founder Principal, Blas International School, Hathras, UP CBSE Master Trainer

They say change is the only constant node in life and we find it holds true at every step of the way. Even in the practical terms, our classrooms and modes of teaching are evolving and upgrading with every passing year to keep pace with the changing trends in the outside world. From the subject matters to the pedagogical methods, the entire process of education has marked a significant degree of progress compared to the yesteryears. The educational sector has recorded positive changes in every tier of education. Right from the primary classrooms to the university levels, we see newer techniques being deployed in teachings and even reading materials have changed substantially.

With the rapidly changing industrial space, it is imperative to upgrade our trends. We have culled out some of the most prominent education trends here.

## Virtual learning

Technological upskilling has emerged as one of the dominant education trends in 2021. With the onset of COVID-19 and work from home settings, the professionals have shown curiosity for learning new things. Growing awareness about technology is steadily and gradually making online education, including online training courses and exams, a commonplace. For students, digital citizenship is defined as the ability to use technology and the Internet both effectively and appropriately. Good digital citizenship is increasingly necessary, but as assignments and lessons traditionally

done in person move online, students need the skills to develop a healthy relationship with digital media.

## Blended Learning

Blended learning is a school or classroom structure in which students learn partially from direct teacher instruction and partially in more self-directed activities. This mixture proves to be perfect if students are learning from both school and home. We are seeing blending technology and instruction to create a high-grade and personalised curriculum for kindergarten to 12th-grade students. Online schools driven by K-12 steadily gain popularity as they blend conventional teaching with new technologies and digital learning resources. Blended learning will be on the rise in schools in future as it gives students an advantage over others.

## Experiential Learning

Experiential learning is a strategy that allows students to develop knowledge and skills in a setting outside of the classroom. For elementary students, options for experiential learning may be limited. But you can still make the most of this strategy by taking students on field trips (virtual or otherwise) and providing students with assignments that encourage them to learn outside of school. Breaking down the walls of education doesn't simply mean creating online classrooms but encouraging students to meet in open spaces and learn outside the confines of the institution. Teaching outside the

classroom should be a source of inspiration, not a strange phenomenon.

Place-Based Education "immerses students in local heritage, cultures, landscapes, opportunities, and experiences, uses these as a foundation for the study of language arts, mathematics, social studies, science and other subjects across the curriculum, and emphasizes learning through participation in service projects for the local school and/or community."

## Gamification and Self Analysis

Gamification, a learning strategy involves using games and rewards to teach students, is a strategy with plenty of both advocates and critics. Gamification has changed the attitude of learning. It helps students in their learning processes to learn to use computer game design and game elements. It enhances attendance by catching students' attention and increasing engagement. It allows students to test their results with intuition and decreases the risk of partiality by different data analysis algorithms. Learning through games allows not only students to develop their skills, but also makes the whole learning process enjoyable and effective. Games and rewards tap into a child's intrinsic motivation to learn—like rewarding a child who completes a reading log with a chapter book of their own. Students who play gamified activities in class can learn to value learning as its own reward and become active, engaged learners over time.





### Social-Emotional Learning (SEL)

Social-emotional learning continues to be an important buzzword. When teachers take time to nurture both a student's educational and social-emotional development, academic progress improves and classroom behavioral issues diminish. And with the COVID-19 crisis changing many students' lives in stressful ways, social-emotional learning will continue to be a necessity for their well-being. Educationists are emphasizing on the importance of building the aptitude around cognitive thinking, problem solving and management. The application-based syllabus which steers away from mere facts and figures and instead goads the students to apply the learning into real-life scenarios are surfacing more and more. Parallely, holistic development of leadership skills, team-building skills, communication skills is being imbued in students through classroom learning. With the emphasis on both offline and online training, students are being prepared to face real-world challenges. Problem-based learning too is gaining popularity. Students are given a real-world problem then they work together to find a solution to this. As they're dealing with real problems they'll encounter in the workplace.

Moral education too involves many insights into the way humans interact with one another. How we manage our way through difficulties is just as important as how we maneuver through technological advances, at least to our ancestors and their views of right and wrong. Within the realm of creating morality, there's character standing right next to it. Character may even be a stronger element of education than morality. With students so quickly exposed to violence and sexism throughout the Internet, character development takes effort and awareness. At every level of education, students should be exposed to it and given a chance to exercise their understanding of it.

### Wrapping up

Perhaps a spark for creativity will emerge from the COVID-19 crisis. The COVID-19 crisis is changing the educational landscape, often in unpredictable ways. It's tough to know exactly what the upcoming school year will look like.

While we don't fully know what the school year will look like yet, it's sure that taking care of your overall health and well-being will be essential for students, teachers, and parents alike.

Teachers should also choose the real

world over the classroom. Students don't learn to live or survive in a classroom. They learn to survive in the real world so the concept of underground education challenges educators in any walk of life to give students the tools with which to live and breathe in the world around them. If the lesson must be taught, then teach it thinking of who they might become.

Elevating the teacher as the key to changing the groaning educational system, change agents are teachers who not only embrace the notion of change but simply make change happen. They don't wait for a law to pass or a standard to take effect, they just take the initiative to ensure students learn no matter what the circumstances or limitations.

### Global View

According to renowned educator Yong Zhao, high-stakes testing creates more problems than provides answers and it doesn't match success in the world today. Educating creative, entrepreneurial students should be the focus of education with what he calls world-class learners in his latest book. Zhao believes there needs to be a paradigm shift in education that builds on students' strengths and gives them a format where their talents flourish and take shape instead of education shaping them.



## FAIRGAZE OFFERINGS

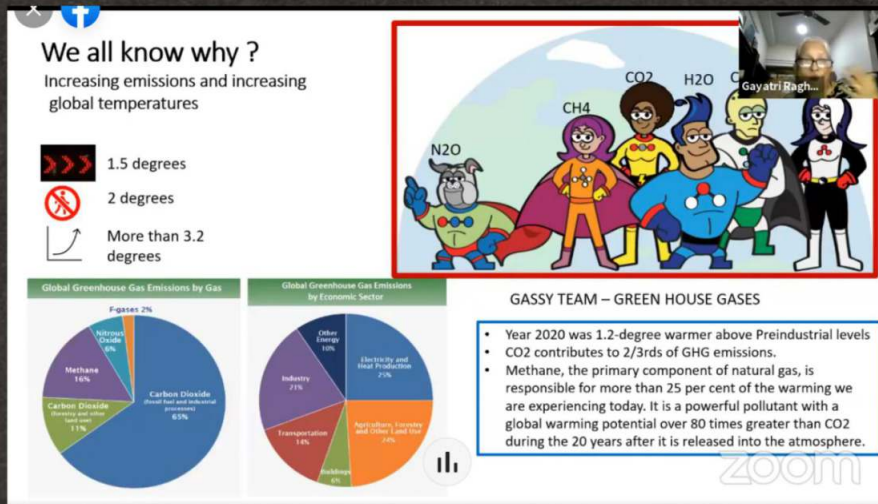
# School Membership Program

The School Membership Program helps the school instill experiential learning, holistic development, skill building and financial literacy in children further preparing them for their life after school.

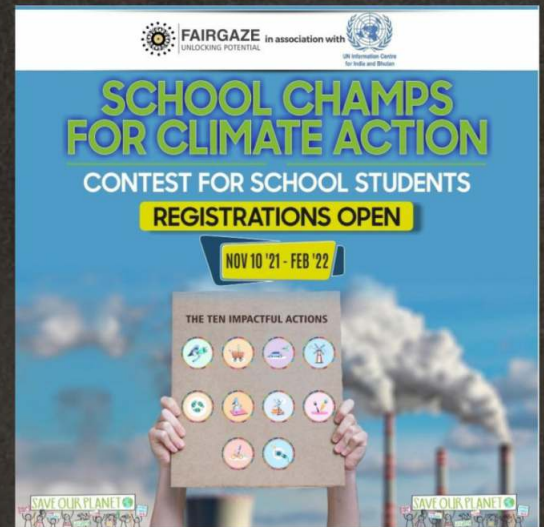




## Recent FairGaze engagements



Orientation ceremony of the 'School Champs For Climate Action' campaign organized by FairGaze in partnership with United Nations Information Centre. (UNIC)



Children from 35+ schools across various states in India are already a part of the change-making campaign.

## UPCOMING WORKSHOPS

- Jan 7, 5 PM- Anxiety and Its Basics
- Jan 12, 4 PM- Variations Of Colour In Paintings
- Jan 17, 4 PM- Discipline & Fitness In Students' Life
- Jan 19, 4 PM- Content Creation- For The Future Entrepreneurs
- Jan 21, 5 PM- Blueprint For Academic Excellence
- Jan 29, 4 PM- The Essentials Of Success

Find out more about all our upcoming webinars and register here:  
<https://fairgaze.com/webinars.html>

## PAST WORKSHOPS

- Dec 17- Anxiety and Its Basics
- Dec 20- Overthinking & Its Dealing Mechanisms
- Dec 24- Art Therapy With Mindfulness
- Dec 25- Coping With Emotions During The Parenting Journey
- Dec 27- Mindfulness Meditation For Students
- Dec 29- Let's Learn Texture Painting

**FAIRGAZE FAIR TALKS**

**TECHNOLOGICAL INFLUENCE ACROSS DOMAINS**  
CHALLENGES & HOW TO FACE THEM  
5th Dec | 5:00 pm

**Moderator**  
Mr. Rajendrasinh Gohil  
Principal  
Amr Jyoti Saraswati International School, Gujarat

**Panelist**  
Mr. Rohit Dua  
Managing Director  
Little Flowers Group Of Schools

**Panelist**  
Ms. Pooja Bose  
Principal  
High Range School, Munner

**Panelist**  
Ms. Charu Srivastava  
Director Principal  
Siddhant International Public School, Delhi

**FairGaze FAIR TALKS**  
involves panel discussions to analyse the outcomes of the research conducted with eminent panellists from school education community.

Learn more about all the panel discussions held as well as the upcoming ones here :  
<https://fairgaze.com/fair-talks.html>



GENERAL KNOWLEDGE

# ISRO: EMPOWERING INDIA WITH SPACE TECHNOLOGY



Indian Space Research Organization's first satellite - Aryabhata, was launched by the Union of Soviet Socialist Republics in 1975, and thereafter several ranges of operations took place. As of now, ISRO operates an oversized variety of earth observation satellites.

Over the years, the operations that were conducted by the Indian Space Research Organization, starting with Aryabhata- ISRO's 1st satellite that the Union of Soviet Socialist Republics launched in 1975. The primary satellite placed into orbit by an Associate in Nursing Indian-made launch vehicle named Rohini was in 1980. As of now, ISRO operates an oversized variety of earth observation satellites. Specifically INSAT, IRS series, GSAT series, Kalpana-1, YOUTHSAT, RESOURCESAT-2, ANUSAT, STUDSAT, and plenty of additional.

The Father of the Indian space program, Dr. Vikram Sarabhai, had sturdy beliefs that space technology can be a robust tool that may considerably facilitate resolving a person's downside and might even utilize it in national development. With this vision in mind, ISRO (and thanks to this achieved self-reliance) considerably centered on building and

"ISRO is changing the world with technology."

launching communication satellites to ease the commoner's life.

The area of space research was accumulated by the government establishing the Department of Atomic Energy with Homi Bhabha in 1950. This

department started funding space analysis across the country.

Indian Space Research Organization was created (in its trendy type as we tend to see it today) in 1969 by Dr. Vikram Sarabhai, who was the primary chairman of the Indian Space Research Organization. Currently, ISRO's chairman is Dr. K. Radhakrishnan.

Indian Space Research Organization's objectives are space exploration, area analysis to develop space technology, and its application to serve numerous national tasks. Its primary motive has continually been to serve its individuals, to attain self-sufficiency.

By:

**Neha Biswal**

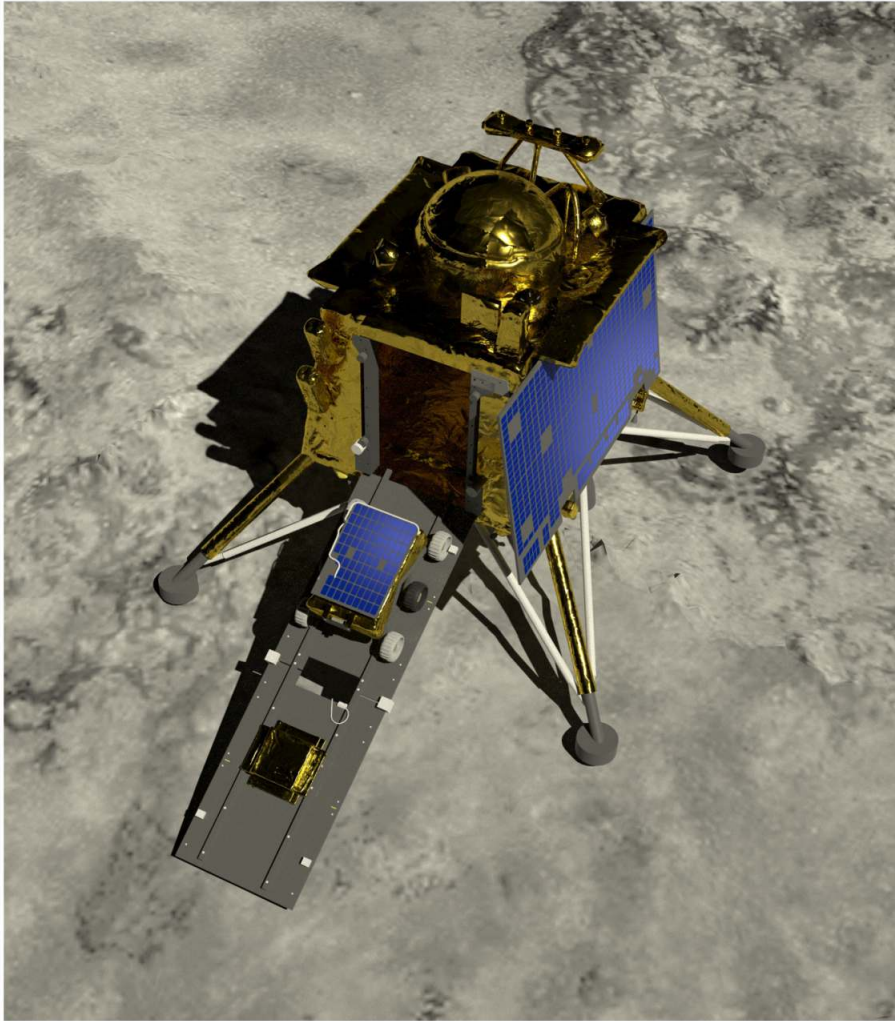
Class - 6

Baji Rout School, Rourkela  
Edited by: Menka Sharma



GENERAL KNOWLEDGE

# MANGALYAAN HAS MADE INDIA PROUD!



This year is special for ISRO as the Mangalyaan launch has completed its 8th year. Mangalyaan mission was India's first interplanetary mission launched by the Indian Space Research Organisation (ISRO).

#### Proud Moment for India -

- This mission made ISRO the fourth agency to put a mission on Mars' orbit.
- India become the first Asian country to reach the orbit of Mars.
- Also, India is the first country to reach Martian orbit on its first attempt.

- The Mangalyaan Mission is the cheapest mission to Mars to date.
- Chinese foreign ministry also praised the Mangalyaan mission and called the mission, 'Pride of Asia'.

The Mangalyaan mission strengthened the Indian Space Research Organisation's position amongst the worldwide space agencies, including NASA and Roscosmos. Then ISRO chairman, G. Madhavan Nair was the first who publicly recognized the unmanned Mangalyaan mission in 2008. The project began to post the successful

launch of Chandrayaan-1, with a study in 2010 about analyzing the feasibility of the project in its entirety by the Indian Institute of Space Science and Technology. Then-Prime Minister of India Dr. Manmohan Singh officially approved the project on 3 August 2012. The launch date first finalized for the mission was October 28, 2013; however, it had been postponed to November 5, 2013, thanks to unsuitable weather.

The ISRO Telemetry Tracking and Command Network (ISTRAC) provided support for TTC ground stations, communications network between ground stations and center, center including computers, storage, data network, and room facilities. The spacecraft for the Mission was launched from the Satish Dhawan Space Centre situated in Sriharikota. The ground stations continuously tracked the launch vehicle for the successful completion of the first stage of the mission. Two ships with Ship Borne Terminals (SBT) were deployed within the South Pacific Ocean. These ships and their continuous tracking provided support for the mission. The spacecraft's operations and post-separation from the launch vehicle were controlled and monitored by Spacecraft Control Centre at Bangalore. This is how Mangalyaan created history and polished the name of ISRO in the space and technology field.

By:  
**Himanshi Bisht**  
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## EDUCATION

# HOMework IN ELEMENTARY SCHOOLS

For many years, people have questioned whether homework benefits pupils and how much homework is suitable. Homework has recently been in the news again, and it remains a source of contention, with allegations that kids and families are suffering. As a result, the load of excessive homework is simply taking an unnecessary toll on them.

School board members, instructors, and parents who have issues regarding the advantages and downsides of homework may want to consult the research. While many elementary schools are adopting no-homework rules, middle and high schools feel hesitant to do so. Thus they believe that the assigned homework to kids allows them to practice studying in their environment at home. It is a vehicle for self-directed learning.

As pupils become older, the motivations for assigning homework vary. Thus, a positive link of homework between school and family is critical throughout

the early academic years. It allows elementary school students to accomplish things at home that are tough to do at school. It allows parents to keep track of what their children are doing in school.

Homework is vital for secondary school students because it helps them acquire the skills, confidence, and drive needed to study efficiently on their own. Teachers should provide homework that is relevant for the students for setting in the working, within a reasonable time restriction, and regularly. This can be followed up at school to demonstrate that

**"Homework is a vehicle for self-directed learning."**

it is valued and contributes to learning. While studies on the optimal amount of time children should spend on homework is limited, there are signs that 112 to 212 hours each night is optimal for high school students. Smaller quantities tend

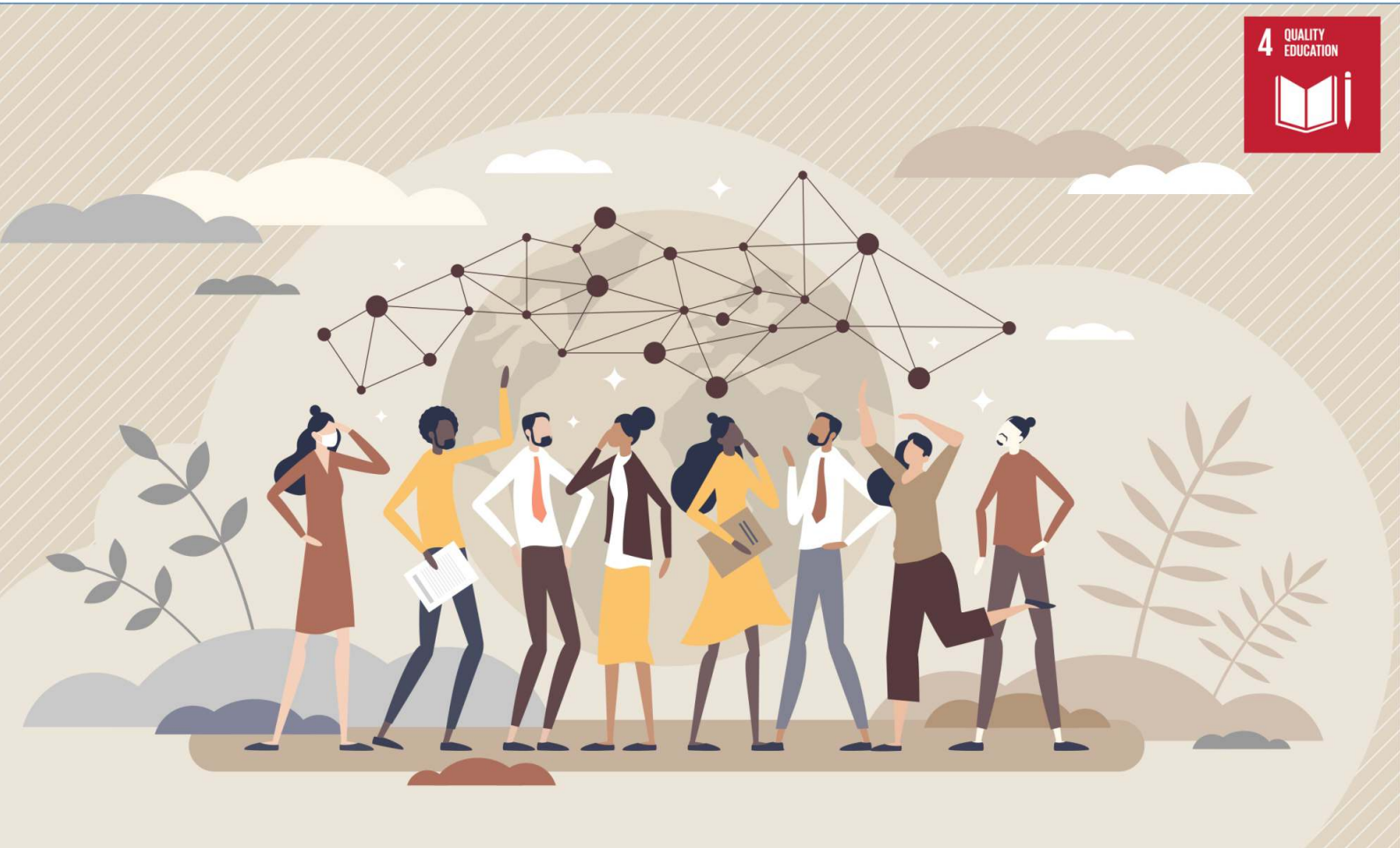
to assist middle school children (less than 1 hour per night). When kids spend more time on homework than this, the beneficial link between homework and student success weakens.

- There isn't much writing or reading work, but there are engaging tasks such as writing headlines, collecting tales, and filling puzzles.
- Permits us to exercise excellent habits like neatness and punctuality at work; as the saying goes, "practice makes perfect." Practice; is a vitally important role in mathematics and languages.
- Long and frequent assignments cause students to lose interest in the subject. Unfortunately, research has yielded mixed outcomes thus far, and additional study is required.

By:  
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Edited by: Menka Sharma





## EDUCATION

# 5 BEST WAYS TO LEARN A NEW GLOBAL LANGUAGE

When it comes to learning any new thing, we tend to search about it from all angles. We go for people's opinion, what's popular, how does it function, and so on. One of the things that we are so fascinated to learn is getting to know about a new language. Learning a global language introduces us to the country and its culture too.

The curiosity of learning something new has always been an interesting thing and to add up the spice internet plays a magical role. The Internet allows us to search in-depth and provides the best ways possible to learn any global language. According to the tips from the internet, one needs to know the 5 C's in learning a language. The 5 "C" are the goal areas that stress the application of learning a language beyond the

instructional setting. Let's now look at the 5 C's:

**Communication | Cultures |  
Connections | Comparisons |  
Communities**

There are several ways of learning a global language among from which best five ways are:

- Watch movies and get insight into their culture
- Join an online class to get better learning skills
- Admit yourself to a diploma course in global language where you get to learn all the 5 "C's"
- Copy elementary school kids
- Teach yourself

The most important points to follow while

learning a new global language are being patient with yourself, making friends, and trying to communicate with them as much as you can, and setting a daily target to revise the learnings. Some people learn it because they are interested; some learn it to study abroad, and some for work purposes. Whatever may the reason be, the interest in learning will only be the vital key in getting better learning objectives.

By:  
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RLT College of Science, Akola



# VEDIC MATHEMATICS FOR GLOBAL CITIZENS

Vedic Mathematics, which is the most effective, fun, fast, & magical way of solving Mathematics, was founded by 'His Holiness Jagadguru Sankaracharya Sri Bharti Krsna Tirthji Maharaja' of Govardhana Matha, Puri (1884-1960). He was a great scholar with 6 masters' degrees in Sanskrit, History, English, Philosophy, Mathematics & Science. 'His Holiness Jagadguru Sankaracharya Sri Bharti Krsna Tirthji Maharaja' derived this exceptional knowledge from one of the 4 vedas, the latest one, the 'Atharva Veda'. The definition of "Veda" as given by Sri Sankaracharya himself is quoted below:

"The very word 'Veda' has this derivational meaning, i.e. the fountainhead and illimitable store-house of all knowledge. This derivation, in effect, means, connotes and implies that the vedas should contain within themselves all the knowledge needed by mankind relating not only to the so-called 'spiritual' matters but also to those usually described as purely 'secular', 'temporal' or 'worldly' and also to the means required by humanity as such for the achievement of all-round, complete and perfect success in all conceivable directions and that there can be no adjectival or restrictive epithet calculated to limit that knowledge down in any sphere, any direction or any respect whatsoever."

The vedas are well-known as four in numbers:

RIG VEDA  
SAM VEDA  
YAJUR VEDA  
ATHARVA VEDA

Vedic Mathematics is much faster than the regular Mathematics, with 'zero error' & inbuilt checking system and one very interesting fact is that except Vedic Mathematics, all other systems related to

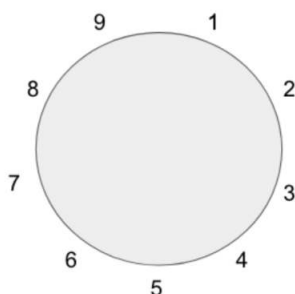






mathematics have limitations. With the help of Vedic Mathematics we utilise both our hemi-spheres of the brain (Left & Right). High Speed Vedic Mathematics Algorithms are used by N.A.S.A., INTEL, MICROSOFT, and many other I.T. companies. Vedic Mathematics has 16 simple word formulas called Sutras, which are really easy to master and apply.

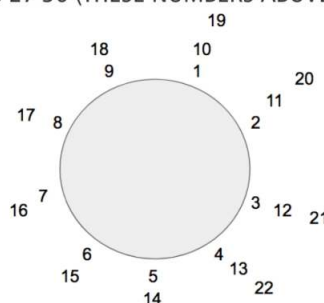
Mathematics is full of calculations, but did you ever know that it's a very systematic subject? Just have a look at the given diagram. As in this circle you start writing numbers, starting from 1 to 9 and then next numbers above these numbers is a series, let's see:



As you can see, the base numbers are 1 to 9 and now the next number 10 we may write above 1 and 11 above 2 and so on.

Let's say in this diagram we wrote numbers this way

- 1 10 19 28 (THESE NUMBERS ABOVE 1)
- 2 11 20 29 (THESE NUMBERS ABOVE 2)
- 3 12 21 30 (THESE NUMBERS ABOVE 3)
- 4 13 22 31 (THESE NUMBERS ABOVE 4)
- 5 14 23 32 (THESE NUMBERS ABOVE 5)
- 6 15 24 33 (THESE NUMBERS ABOVE 6)
- 7 16 25 34 (THESE NUMBERS ABOVE 7)
- 8 17 26 35 (THESE NUMBERS ABOVE 8)
- 9 18 27 36 (THESE NUMBERS ABOVE 9)



And if you see the total of the digits of any number in the outer layers you will get the base number, like above 1 next number is 10, and if we add 1 and 0 we will get 1.

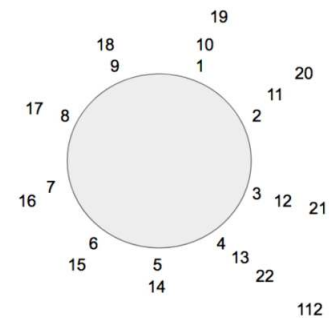
In the same way the next number in the outer layer around 1 is 19,  $1 + 9 = 10$ . Further  $1 + 0 = 1$

You can check it with every number, so simply if you have to put a bigger number and find its position like 112, you do not have to count it in the circle, you just do the addition of all the numbers you will know its base number.

$$112 = 1 + 1 + 2 = 4,$$

So base number for 112 is 4,

So the placement of 112 will be above 4.



Now if you want to make this particular subject Mathematics as your good friend start playing with numbers, you can pick any bigger number and do the addition of all the digits and find the placement for that particular number.

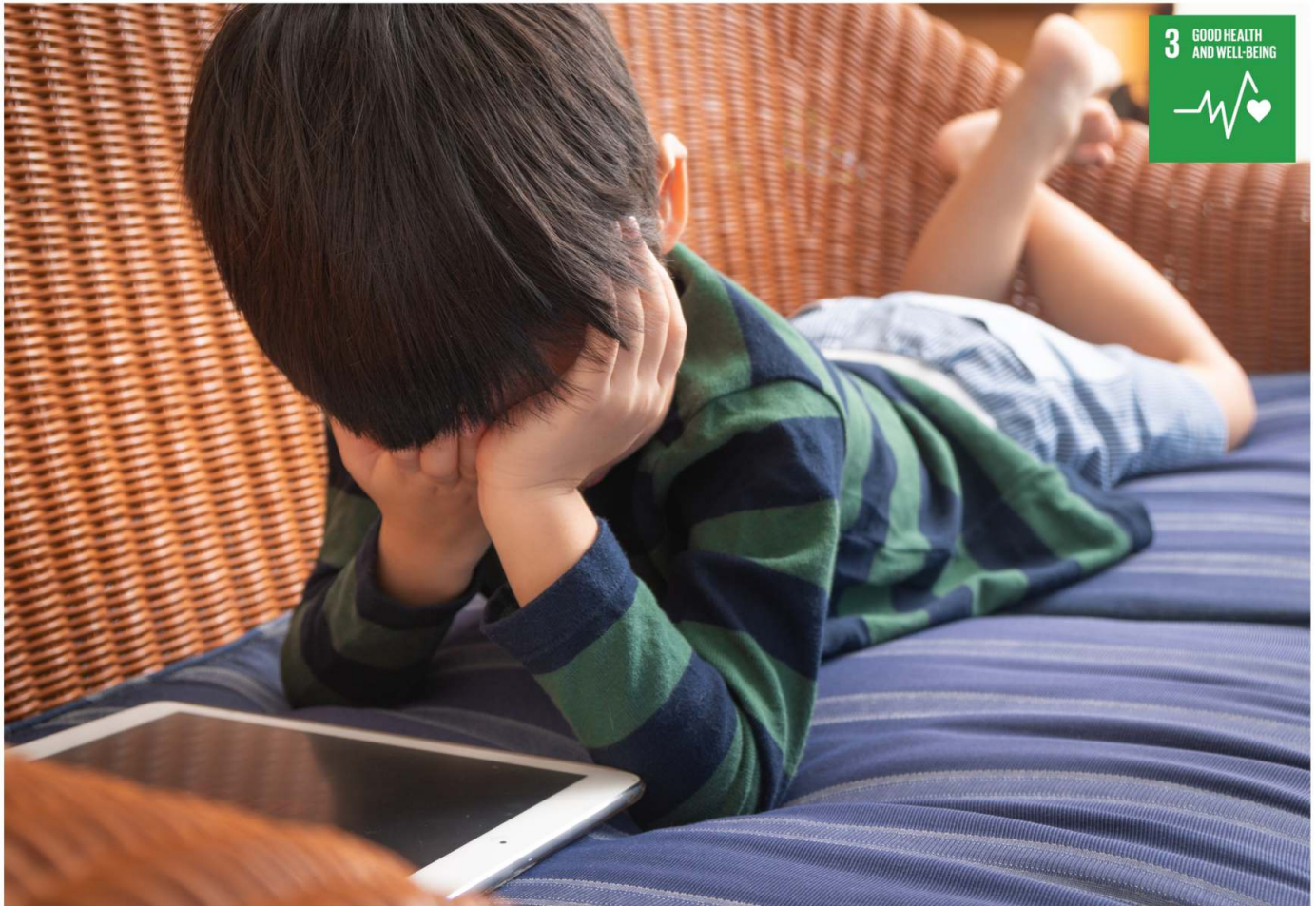
(Source: Taken from the book  
'Friendship with Mathematics' by  
'Manu Tripathi')

By:  
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WELL BEING

# EFFECTS OF INCREASED SCREEN TIME ON EYES



Screens are a part of everyone's life these days. While there is growing evidence showing the negative effects of screen time on adults and children, the coronavirus pandemic is remaking the way children learn, and it could have an impact on their eyes. Due to this, schools have also shifted from offline classes to online classes. Children are spending more time on computer screens due to this. More screen time and fewer outdoor activities can harm children's vision and lead to many eye diseases. Internet usage is at an all-time high, and Google Classroom, social media usage, and online gaming have

also gone up tremendously. This is causing severe headaches in children. Many of them are having weak eyesight due to this. Children are getting irritated due to eye pain, headaches, etc.

After having so much screen time, they are unable to study. Many of them are getting stress levels high. It is also affecting one's sleep schedule. The strain from screen use can lead to visual disturbances and other physical discomforts, including tearing, gritty sensation, tired eyes, burning sensations, redness, blurred vision, and general eye fatigue. It can affect your vision, but it's more of a comfort issue with an extended

period's device. Too much screen time can lead to obesity, sleep problems, chronic neck and back problems, depression, anxiety, and lower test scores in children. Too much time engaging in sedentary activity, such as playing video games or watching TV, can be a risk factor for obesity. At last, I would say that reduce the screen time as much as you can.

By:  
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WELL BEING

# ANTIBIOTIC RESISTANCE: AN AGE OF SUPERBUGS

India consumes additional antibiotics than the other countries. As a result of our augmented use of antibacterial and antibiotic drugs, strains of microorganisms have evolved and gotten stronger. Superbugs square measure strains of microorganisms, viruses, parasites, and fungi that square measure immune to most of the antibiotics and different medications normally won't treat the infections they cause. Many samples of superbugs embrace resistant microorganisms that may cause respiratory disease, tract infections, and skin infections.

Drug resistance (antimicrobial resistance) may be the present development that may be slowed, but not stopped. Over time, germs like microorganisms, viruses, parasites, and fungi adapt to the medication that square measure designed to kill them and alter them to confirm their survival. Thus, this makes a customary treatment for typically ineffective infections. Researchers still assess however these germs develop resistance. They conjointly study a way to diagnose, treat and forestall antimicrobial resistance.

Certainly, some actions could accelerate the looks and unfold of antimicrobial-resistant germs, such as:

- Using or misusing antibiotics
- Having poor infection interference and management practices
- Living or operating in unclean conditions
- Mishandling food

A study of free STEM CELLS translational medication (SCTM), by researchers at the Baker Institute for Animal Health, a part of Cornell University's faculty of medicine, Ithaca, N.Y., conveys a detailed relevant ex vivo model. However, treating wounds

with the secretion of a sort of somatic cell known as mesenchyme stromal cell (MSC) effectively reduced methicillin-resistant Coccus Aureus – higher referred to as MRSA viability. These also stir up the encircling skin cells to develop a defense against the microorganism encroacher.

More than 119,000 folks within us throughout 2017 suffered from blood infections caused by a microorganism known as Coccus Aureus (S. Aureus). Among these folks, nearly 20,000 died, consistent with the foremost recent



statistics from the Centres for Wellness management and interference. S. Aureus has become a serious health condition, as a result, these microorganisms have become threatening underneath bound circumstances, like in disorder patients or infected wound environments, and since they need grownup immune to several antibiotics – the sole medications on the market to treat microorganism infections at the instant.

This study, however, may facilitate some amendment by informing an attainable new approach for treating one of the foremost dangerous strains of the microorganism, MRSA. Wherein many of us carrying MRSA may not have serious consequences, but for those whose health is compromised this questionable

"superbug" is often fatal.

"This study investigates the antimicrobial properties of proteins secreted from stem cells as a possible treatment to cut back infection in skin wounds. The information supports the employment of somatic cell medical care for infected wounds, and this work ought to be more reviewed." Says, Anthony Atala; M.D, Editor-in-Chief of STEM CELLS translational medication and director of the Wake Forest Institute for Regenerative medication.

To protect yourself from harmful germs and lower the danger of illnesses:

- Wash your hands usually with soap and water, or use associate degree alcohol-based hand sanitizer.
- Handle food properly, like separating raw and toasted food, preparation food totally, and victimization clean water.
- Avoid shut contact with folks that square measure unwell.
- Make certain your vaccinations square measure up so far.
- You can conjointly facilitate and tackle antibiotic resistance by:

Using antibiotics as directed and only if required

- Completing the total treatment course, though you feel higher
- Not sharing antibiotics with others
- Not victimization leftover prescriptions

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# SCHOOL CHAMPS FOR CLIMATE ACTION



**About the campaign:** FairGaze (leading school media ecosystem) and United Nations Information Centre for India and Bhutan, has launched a student-led campaign **School Champs For Climate Action** for SDG 13 to commemorate the 26<sup>th</sup> Conference of Parties of the United Nations Framework Convention on Climate Change or COP 26, held from 31 October to 12 November 2021 in Glasgow, Scotland.

The campaign also aims to encourage them to be change-makers and share the story of their action that led to a positive impact on climate.

The campaign includes a contest, which is open for students from Grade 6 to 12 with registration beginning from 10 Nov 2021 to 15 Jan 2022 culminating with a closing ceremony and award announcement on 11 Feb 2022. Students can register here: <https://sdg.fairgaze.com/one-day-for-climate.html>

## Details:

- **Participants' Profile** - Classes 6<sup>th</sup>-12<sup>th</sup> | **Mode** - Online | **Contest fee** - The contest is free for all students
- **Language of submissions:** Hindi/English

## What does the participant need to do?

- Register for the campaign at <https://sdg.fairgaze.com/one-day-for-climate.html> from 10<sup>th</sup> Nov and until 15<sup>th</sup> Jan 2022. Post registration, students can login anytime to submit the stories.
- Submit a 250-300 word story on sustainable actions they took to combat climate change. Some guiding themes that students can select from are available at the "Ten Impactful Actions" available at: <https://www.un.org/en/actnow> - Submissions to start from Nov 2021.
- Upload a 1-minute video showcasing the story and the impact. The video must include parental testimonials as well.
- Verify the story and the video on authenticity. The verification certificate should be signed by the principal of the school.



**FAIRGAZE**  
UNLOCKING POTENTIAL

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