



# MANDIRIAN SENTINEL

APRIL-JULY, 2020

*Edition II*

*BIRLA VIDYA MANDIR, NAINITAL*



*“What if the colour of everyone is to be seen and accepted separately, for if all mix together, will appear black. Individuality is the real beauty of a being; all colours should exist side by side and simultaneously be enjoyed.....similarly in life, different roles played by the same person should exist peacefully and distinctively inside him.....perfection is not the end product.....IT'S A PROCESS.”*

SCHOOL  
BUZZ



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**Dear Parents of all new joiners**

Greeting from Birla Vidya Mandir!

It gives me immense pleasure to welcome your child in the family; **a home away from home**. I, on behalf of the school management and entire school fraternity, would like to welcome you and your child as a member of our community.

When it comes to the well-being of children, no liaison is impossible to form and none can be possible without a partnership between you, the parents, and me, in the loco parentis of your child. We both, with collaboration and cooperation, could help the child to achieve the best version of himself. As the mentors to your child, the respective house masters will be your first point of contact for any matter that needs attention. I stalwartly believe that in this journey together, we can help your ward understand and value real affection along with deep concern, all the while upholding the core values of the school which are respect, resilience and integrity; and the pursuit of excellence.

Various portals for communication are open so that the child can share and discuss any matter and these platforms would be paramount about the welfare of your child. This is an initiative to address and inculcate skills and 21<sup>st</sup> century life competencies – collaboration, creative thinking, critical thinking, communication, learning to learn, emotional development and social responsibilities - in our learners.

For any queries related to the academic growth and career choices, feel free to speak to the subject teachers of your ward. In case you prefer to choose to communicate any of the coordinates, kindly email only, do mark me a copy of the same. Hope we can create a productive, wonderful, life-skill oriented and experiential teaching-learning environment for your child.

Thank you.

(Principal)



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*Edition II*      *BIRLA VIDYA MANDIR, NAINITAL*

## **COVID-19: UNMASKING THE NEW FACE OF EDUCATION**

The petrifying and severe impact of COVID-19 has shaken the world to its core. Further, most of the governments around the world have temporarily closed educational institutions in an attempt to contain the spread of the COVID-19 pandemic. In India too, the government, as a part of the nationwide lockdown, has closed all educational institutions, as a consequence of which, learners ranging from school going children to postgraduate students, are affected. These nationwide closures are impacting over 91% of the world's student population. Several other countries have implemented localized closures impacting millions of additional learners. UNESCO is supporting countries in their efforts to mitigate the immediate impact of school closures, particularly for more vulnerable and disadvantaged communities, and to facilitate the continuity of education for all through remote learning. The UNESCO report estimates that the Corona virus pandemic will adversely impact over 290 million students across 22 countries. The UNESCO estimates that about 32 crore students are affected in India, including those in schools and colleges. Therefore, the government has come up with e-

learning program. Many ed-tech firms have tried to leverage the occasion by offering free online classes or attractive discounts on e-learning modules. These measures have been met with overwhelming response by students, with some start-ups witnessing as high as 25% uptick in e-learning. Remote learning seems a viable solution to students during this time as they offer convenient, on-the-go and affordable access to lessons. E-learning also comes as an interesting and interactive alternative as compared to classroom teaching.



Nevertheless, Covid-19 has prompted experts to rethink the conventional mode of education. Digital education appears to be a viable solution to fill in the void for classroom education for a period of three to four months while minimizing the chances of any infection to students until classes resume. More importantly, it has also



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APRIL-JULY, 2020

***Edition II      BIRLA VIDYA MANDIR, NAINITAL***

brought the hitherto peripheral issue of digital education in India to the centre stage. Going forward, digital education is likely to be integrated into the mainstream education. This will enable inclusive education by facilitating learning across diverse geographies in India. Moreover, it will provide an opportunity for educators to come up with customized learning solutions for every student. Digital learning has many advantages, like it has no physical boundaries, it has more learning engagement experience than the traditional learning, it is also cost-effective and students get to learn in the confines of their comfort zone. However, digital learning is not without its limitations and challenges, since face-to-face interaction is usually perceived as the best form of communication as compared to the rather impersonalized nature of remote learning. Globally, online education has met with some success. In the case of India, we still have a long way to go before digital learning is seen as the mainstream education, because students living in the urban areas have the facilities to opt for digital education, whereas rural area students do not have the required infrastructure, nor are they financially strong to avail the resources required for digital education. The building of the digital education infrastructure by the Government of India presently appears to be difficult due to lack of

budget. Further, even if the digital infrastructure is built, training has to be given to the teachers to use the digital system to provide authentic and proper, uninterrupted and seamless education to the students. Remote learning increasingly relies on the reliable power supply and ubiquitous internet connectivity which might be a far-fetched thing for Tier 2 and Tier 3 cities in India.

## **Huge demand rising in Online Learning**

The orders of 'Stay Home' and social distancing have spared no one. Students have been caged at their homes since Lockdown 1.0. India has the largest population in the world in the age bracket of 4-23 years, which presents huge prospects in the education sector. Most of the companies, schools and institutions have come up with online essentials as their primary mode of teaching. The teachers and instructors are gradually organising online webinars and meetings. Educational universities and institutions like Amity International Group, DIT University, Dehradun and many others have shown tremendous results in online teaching methodology. The institutions are promoting the concept of online classrooms and the resources are being provided to all the students digitally.



# MANDIRIAN SENTINEL

APRIL-JULY, 2020

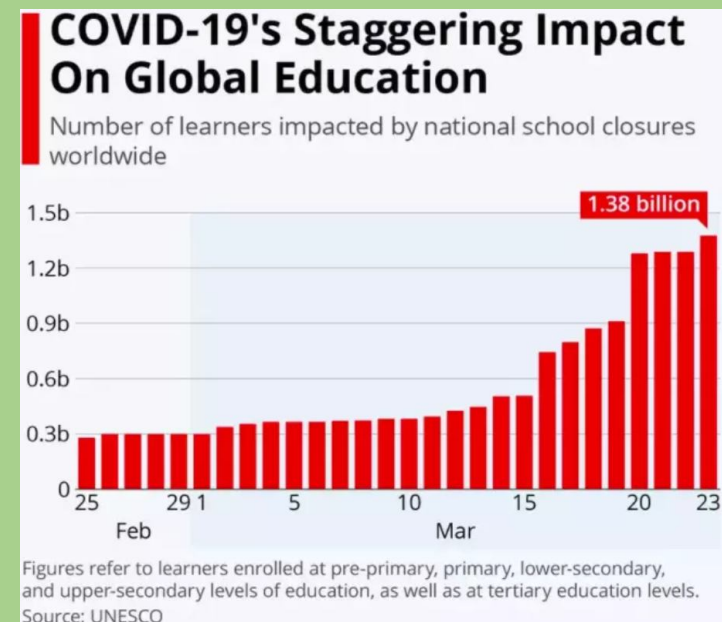
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The demand for online courses and learning has seen a sudden surge since the lockdown. This clearly indicates the huge demand that is rising for online learning. Online learning has been adopted in various countries as the primary mode of education. The e-learning method requires only a good internet connection and a computer/mobile as essentials. The sessions can also be recorded for later use. Also, the commute time is reduced to zero, buying enough time to relax after the sessions. The retention power is also increased, as the students don't feel tired due to travelling. The learning from home also provides a comfortable ambience to focus as students are flexible to choose the right environment for themselves. Moreover, the importance of virtual learning is increasing as the academic year has been drastically interrupted due to Covid-19. Students are left with no choice other than attending online classes.

## **Technological challenges being faced by the teachers and students**

The lockdown crisis has forced us to adopt online learning mode without any preparation. The educators and students are strangled with the basics like internet connectivity and unpredicted power cuts. Also, the educators are under tremendous stress in solving

structural issues like teaching methods and deliverables. The new learning system has also resulted in increased working hours for the educators, inviting more pressure. Many students also try to skip classes, as the teachers are not able to ensure 100% attendance. Many parents don't have a spare computer or a laptop at home, as they themselves are busy working from home. This forces the students to struggle with attending the classes over smart- phones.





# MANDIRIAN SENTINEL

APRIL-JULY, 2020

*Edition II*      *BIRLA VIDYA MANDIR, NAINITAL*

## **Effective measures taken by the Government to boost virtual classroom process**

The government is taking effective measures to curb the negative implications. FM recently announced help for all the students who don't have access to internet facility. This consists of DIKSHA, a one-nation, one-digital platform facility for school students. The government has also referred to the extensive use of radio services in the near future. The Ministry of HRD is also planning to open the schools after consent from MHA. Since social distancing is not feasible in schools, the MHA has prohibited opening schools throughout the country. This

leaves the schools and institutions to actively adopt virtual learning methods.

Online teachings are a potential model for a resource-crunched country like India, and we should look forward to adapting to newer learning methods. With everything going digital, we need to assure efficiency in learning methods too. Online teachings will promote self-development and effective teachers are being able to realize it. The positive prospects, however, outweigh the negative implications and we should be ready to acclimatize with the advancements.

**ENGLISH DEPARTMENT**

## **REPEATING THE SAME CALL (1962-2020)**

### **"DOES TIME ACTUALLY HEAL EVERY WOUND?"**

Exactly 55 years ago, a full-fledged war broke out between India and China. The Sino-India war began on October 20, 1962 when the People's Liberation Army of China invaded Ladakh and Arunachal Pradesh (then

known as the North East Frontier Agency) in a synchronised move. With a three-week ceasefire, the war lasted till November 21, when China unilaterally withdrew from Indian territories before the snow could block safe passage to its forces. Around 3,250 Indian soldiers were killed. India lost about 43,000



# MANDIRIAN SENTINEL

APRIL-JULY, 2020

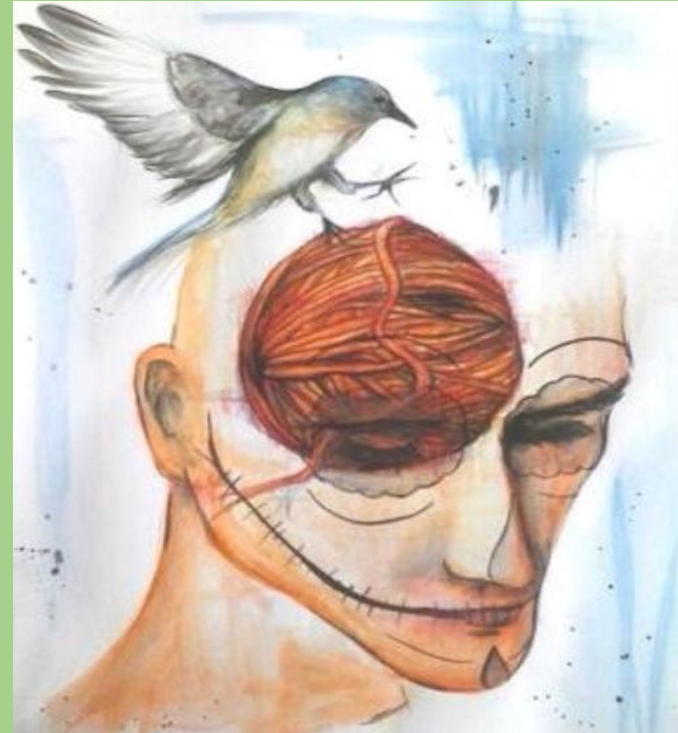
*Edition II      BIRLA VIDYA MANDIR, NAINITAL*

square kilometres of land, captured by China in Aksai Chin, an area equal to Switzerland in size.

The 55th anniversary of the India-China war has a shadow of Doklam stand-off hovering over it. The anniversary is also significant in view of the CPC Congress, underway in China, where President Xi Jinping has emerged as the most powerful leader in the country's history. He is said to be the first President of China to have effective control over its armed forces - not even Mao Zedong and Deng Xiaoping enjoyed an unchallenged say over the PLA.

After the Indo-China war of 1962, we took a pledge, the results of forgetting which are being seen today. The pledge was to recapture the area which China had captured from our territory after we lost the war.

The incident which took place in GALWAN Valley on 15th June 2020 shattered all the rosary of PEACE that we have been trying to establish and maintain for the last 58 years. On 5th May, skirmishes between Indian and Chinese soldiers started. China once again started following its old habit of double-facedness and is trying to confuse between PEACE and WAR. The situation in the region is still very tense.



The Line of Actual Control, as the disputed border between the two nations is known, is poorly demarcated. The presence of rivers, lakes and snow caps means the line can shift. The soldiers on either side - representing two of the world's largest armies - come face to face at many points. India has accused China of sending thousands of troops into Ladakh's Galwan valley and says China occupies 38,000sq km



# MANDIRIAN SENTINEL

APRIL-JULY, 2020

*Edition II      BIRLA VIDYA MANDIR, NAINITAL*

(14,700sq miles) of its territory. Several rounds of talks in the last three decades have failed to resolve the boundary disputes.

The two countries have fought only one war so far, in 1962, when India suffered a humiliating defeat.

The main reason of standoff between India and China is the infrastructural development on the Indian side, which China is opposing. China understands that if India develops roads and highways along the borders, it would affect China in a future war.

China is trying to engage India to give their military the time to gather all their arms and ammunition against India. In June, Chinese soldiers crossed their border and captured the area which comes under NO MAN'S LAND. It was opposed by Indian soldiers and resulted in skirmishes.

India is trying to solve the issue diplomatically and for it, commander level meetings are being arranged. But, China once again is following the same path of double faced behaviour. On one side, it is offering to solve the issue by diplomacy and on the other hand, it is stationing its army, building bunkers, transporting

arms and ammunitions- or if we say directly, planning for WAR.

Commenting on the recent incidents, without sharing any specifics, the Chinese foreign ministry spokesperson Zhao Lijian stated: "Chinese border troops have always been upholding peace and tranquillity along our border areas. China and India stay in close communication and coordination concerning our border affairs within existing channels." The Indian army's statement also downplayed the flare-up, claiming that such "temporary and short duration face-offs" were bound to occur between border troops as long as the boundary remained un-demarcated.







# MANDIRIAN SENTINEL

APRIL-JULY, 2020

*Edition II      BIRLA VIDYA MANDIR, NAINITAL*

According to a report sent by Indian secret agencies, China has stationed a unit of well-trained soldiers, who are good at martial arts, in the Leh Ladakh area.

Seeing this behaviour of China, Indian government has become active now. In the recent visit of our defence minister Mr. Rajnath Singh to France, India asked for advancing the delivery of Rafael jets. The delivery of the first 6 jets is to be done by 27 July.

Recently, Indian government banned 59 Chinese apps which were used in India. This is a very hard step taken by the Indian government and has resulted in misbalancing China's cyber market.

As a Carnegie report highlights, the best way to guarantee “peace and tranquillity” on the Sino-Indian border is to focus on military-to-military communication, which would “allow the two sides to immediately clarify any relevant issues at a more senior level.” For India, it is also important to focus on

improving military deterrence to ensure China’s ceasing of provocative border activities. The failure of the Indian deterrence on this front in the 1950s had much to do with our inability to construct roads along the border areas that could match China’s penetration in Tibet. During the 1962 war, it meant that India was unable to mobilize large concentrations of troops in these regions or ensure a steady supply of ancillary military resources to sustain a prolonged conflict.

Until the military powers of the two countries are balanced, only deterrence and diplomacy can guarantee stability between two intensely nationalistic states on the Sino-Indian border.

But, if war to happen...it will be the victory at the cost of humanity and human lives.

**ADITYA PRATAP SINGH**



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## **DON'T BE JUST 'LOCKED' IN LOCKDOWN: FIND YOUR IKIGAI**

### **What is Ikigai?**

**Ikigai is a Japanese word that translates as a reason for being, a reason to get up in the morning, a 'raison d'être' as the French would say. It's the combination of IKI, meaning life, and KAI, meaning the realisation of hope and expectations. Ikigai combines the joy from doing something and a sense of purpose, meaning and well-being. It's feeling that your life is valuable, that you have an impact. It's not linked to your status in society, or the money you earn.**

This concept comes from the island of Okinawa in Japan, where inhabitants seem to be living longer than the national average. One of the cornerstones of the Okinawans' lifestyle is that they have found their Ikigai.

**Everyone's Ikigai is unique:** it's based on your personal history, your values, your beliefs and your personality. It's a personal journey that may take time.

If you are committed to making a change in your life, I assure you that you will get there.

Let's break these down a little further.

### **Passion**



### **What inspires you?**

Forget the worries that plague your day-to-day life and cloud your vision of the world. Picture this: money is no object, the opinions of others are irrelevant, and you can spend your time and energy on whatever excites you most. Explore the depth and scope of this passion. Distributing this across your commitments could enable you to enjoy an equally profound feeling of enthusiasm at work and in your downtime.

### **Mission**



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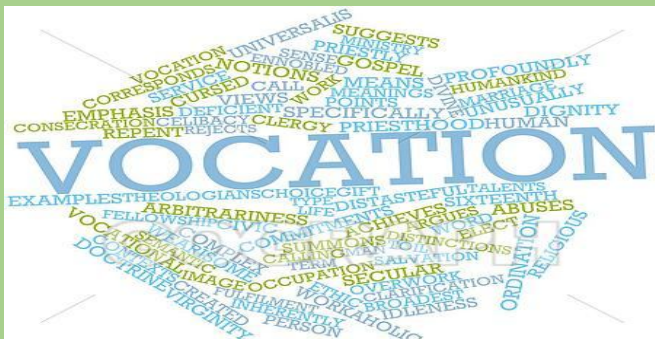
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## What makes you feel useful?

There is a special kind of satisfaction that comes from being able to make a difference in the world. Making a valuable contribution to something is admirable from a social, moral, and humanitarian standpoint. You don't have to believe that you were "put on this Earth" to accomplish something in particular. But we all have it within us to share and give to the world around us.

## Vocation



## What are you drawn to?

The very word 'vocation' is derived from the Latin *vocatio*, meaning 'call' (i.e. your 'calling'). It refers to what you feel especially suited to, given your abilities, qualifications, experience, and personality.

## What activities do you find most productive and fruitful?

This is the aspect that is specifically what you are paid for, and what is commonly understood as your primary (if not sole) source of income. But from a more meaningful perspective, your chosen profession should be the outcome of all of the aforementioned aspects.

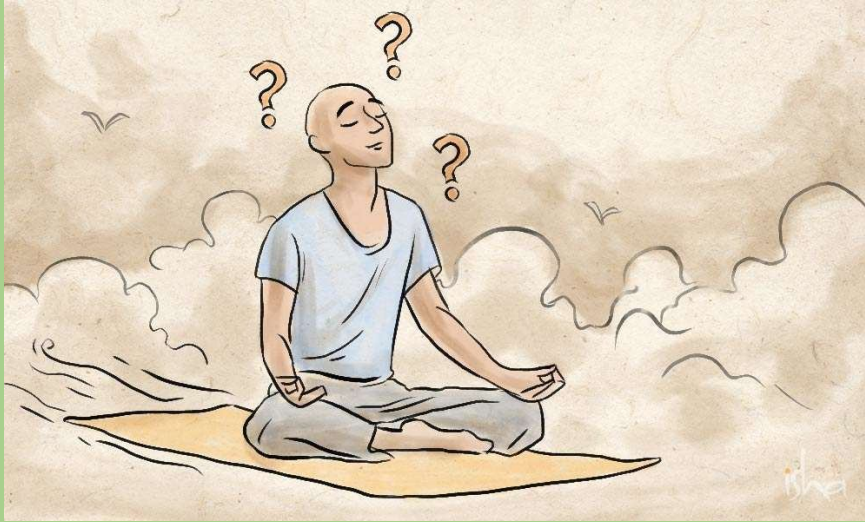


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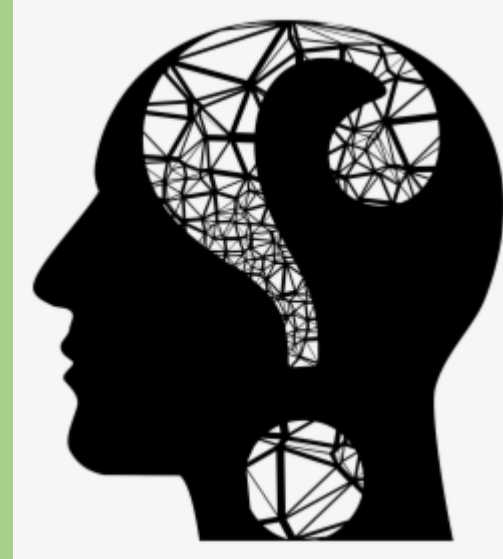
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**“Curiosity is its own reason. Aren’t you in awe when you contemplate the mysteries of eternity, of life, of the marvellous structure behind reality? And this is the miracle of the human mind — to use its constructions, concepts, and formulas as tools to explain what man sees, feels and touches.”**

**– Albert Einstein**

Ultimately, the best approach to take with all of these 4 categories is a **holistic** one.



Making the most of your purpose, or *Ikigai*, requires a sense of motivation, self-awareness, and enthusiasm across your **passion, mission, vocation** and **profession**.

Drawing upon all four aforementioned influences, ask yourself:

- Why doesn’t your job evoke feelings of joy?
- Why doesn’t your job inspire you?
- How could you better showcase your unique skills and strengths at work?
- What could you see yourself doing professionally on a daily basis?



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APRIL-JULY, 2020

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In addition to answering those four questions about ourselves, there is another layer to the Ikigai concept: It is much easier to feel Ikigai when we create social connections. This explanation is perhaps due to the ingrained social connections that Japanese society promotes and is conditioned to seek.

- The 5 pillars that enhance your Ikigai
- Starting small

- Accepting yourself
- Connecting with the world around you
- Seeking out small joys
- Being in the here and now

KNOW A LITTLE MORE ABOUT YOURSELF BY FOLLOWING THE LINKS BELOW:

<https://ikigaitribe.com/ikigai/the-ikigai-questionnaire/>

<https://clarityonfire.com/quiz/>

## **THE ARTISTS UNVEIL (THE CLICK N BRUSH)**



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In these trying times when negativity is all set to gobble up the humanity, paint and brush, creativity and abstraction, camera and reel are the perfect way out towards productivity and positivity .....have a glimpse of it.





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## **BEYOND BOARD EXAMINATIONS: NATURE DROPS**



*It's all snow n snow. The unmatched beauty, the orb of the place that tremendously captivates the soul and make one dwell in the lap of nature. The heavenly campus and its aura heal the soul.*



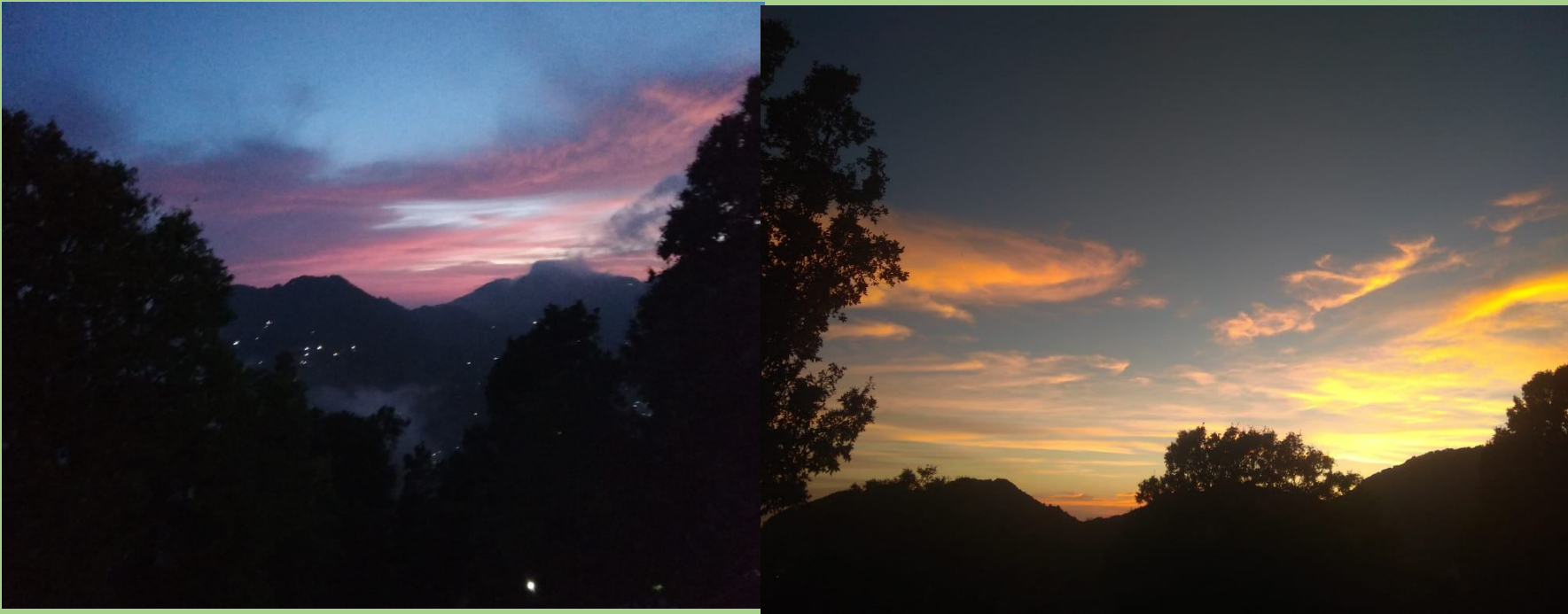


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*The sun, the fog, the cluster of trees, the pink sky, the orange clouds scattered as different shades and hues on a colour palette, the lights that seem like earthen pots .....oh BVM, you beauty!*



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***Beauty thy name is BVM.*** The day I decided that my life is all magic, there was suddenly magic all around me". The beauty that my school carries, has the power of healing an individual within a short span of time. Coming from a city like Delhi where crowd is everything and peace of mind is none, living in hills is a blessing. By slowing myself down and walking towards my school, letting myself smell, sound and feel nature, I feel the healing pixie dust around me. I am present, aware, and

often experience less stress and forget all my worries or things I am going through.

Waking up in the morning just to see the beautiful sunrise has been every day's task. Trust me, it's a blessing to us students and teachers. Some days are rainy and we have to wear those uncomfortable gumboots, and some days are colourfully sunny, some are white with snow and some are drenched in rain... but all days are beautiful. Once you live in the hills,

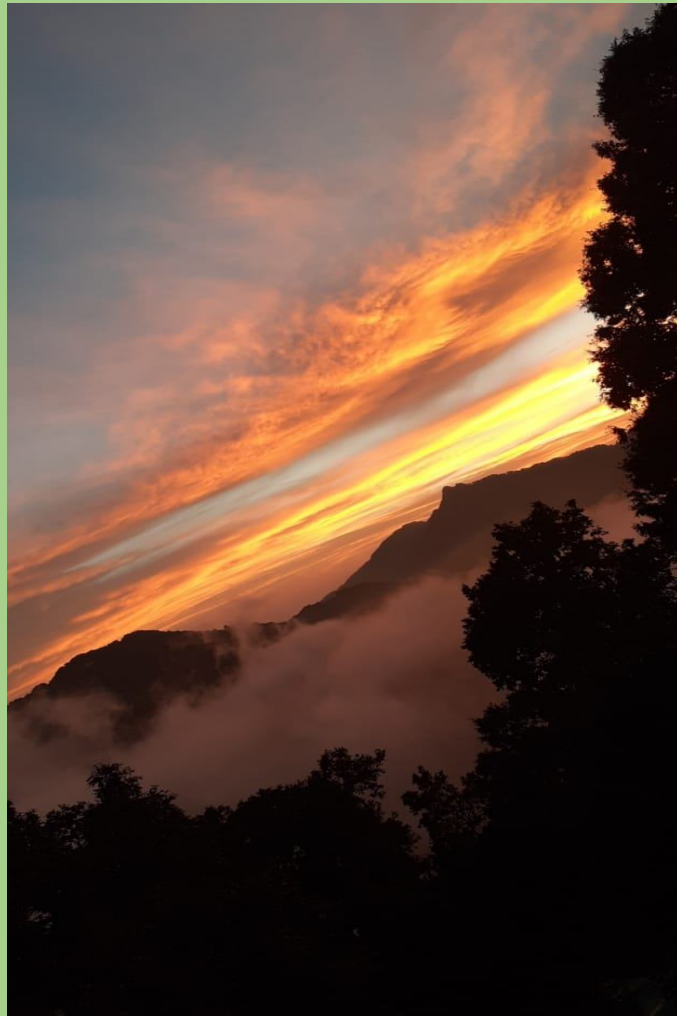


# MANDIRIAN SENTINEL

APRIL-JULY, 2020

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however short the time is, you can never live far from them. They transform you.



I've heard it right that beautiful things in life are not material things. They are people, places, memories and they're feelings, moments, smile and laughter. And I've met people who are absolutely amazing.... teachers and my friends. Never in my life, would I ever forget the memories I have made with my pals. This school has transformed me into a smart and bold girl from a cry-baby..... Proud to be a **Mandirian**.

**ANWESHA CHANDRA**



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## *FARE THY WELL*

*THERE IS THIS UNIVERSAL TRUTH WE ALL HAVE TO FACE, WHETHER WE LIKE TO OR NOT, EVERYTHING EVENTUALLY ENDS. AS MUCH AS ANY ONE OF US LOOKS FORWARD TO THIS DAY, WE'VE ALWAYS DISLIKED ENDINGS. THE FINAL CHAPTER OF THE WONDERFUL SCHOOL DAYS, PARTING WAYS WITH THE CLOSE FRIENDS, MENTORS, TEACHERS, DORMS AND EVERYTHING ELSE. BUT ENDINGS ARE INEVITABLE. CHANGE IS THE ONLY PERMANENT THING. IN YOUR JOURNEY WE WILL ALWAYS BE THERE. YOU ALL WILL ALWAYS BE THE PART OF THE EXTENDED FAMILY AND OUR HEARTS.*

## *BVM FAMILY*





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## THE RESULT TALK: SESSION 2019-20

### AISSE (CBSE Class X) 2020

#### RESULT SUMMARY

No. of Students Appeared	127
Pass Percentage	100
No. of students in 1st Division	122
Total No. of distinctions in the subjects	485
No. of distinctions in aggregate %	98
Average aggregate %	81.9

#### TOP five POSITIONS IN SCHOOL %

CHAHAK SAXENA	95.2
UMANG DUTTATREYA	94.8
SAHIL AGRAWAL	94.2
ADITYA JAIN	94.2
KUSHAGRA KAPOOR	94
TANISH KUMAR	94
ARCHIT TAYAL	94
ABDULLAH MIRZA	93.8

### AISSCE (CBSE Class XII) 2020

#### RESULT SUMMARY

	Science	Commerce	School
No. of Students Appeared	34	27	61
Pass Percentage	100	100	100
No. of students in 1st Division	34	27	61
Total No. of distinctions in the subjects	159	143	302
No. of distinctions in aggregate %	32	26	58
Average aggregate %	87.1	89.8	88.3

#### TOP five POSITIONS IN SCHOOL

SCIENCE	%	COMMERCE	%
PANKHURI SAXENA	96.6	SWAYAM PANDEY	98.8
AMAN KUMAR GUPTA	95.8	RAGHVENDRA GAHLOT	97.6
ANUJ BRAHAM	95.8	KESHAV KEJARIWAL	97.0
ADITYA PANDEY	95.6	ARCHIT RUNGTA	96.4
YASH MISHRA	95.6	RAGHAV BANSAL	94.6
PRATYUSH	95.4		
AKSHAT BATRA	94.6		



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**PANKHURI SAXENA**



**AMAN KR. GUPTA**



**ANUJ BRAHAM**



**ADITYA PANDEY**



**YASH MISHRA**



**PRATYUSH**



**AKSHAT BATRA**



**SWAYAM PANDEY**



**RAGHVENDRA  
GAHLOT**



**KESHAV KE JARIWAL**



**ARCHIT RUNGTA**



**RAGHAV BANSAL**



**CHAHAK SAXENA**



**UMANG  
DUTTATREYA**



**ADITYA JAIN**



**KUSHAGRA KAPOOR**



**TANISH KUMAR**



**ARCHIT TAYAL**



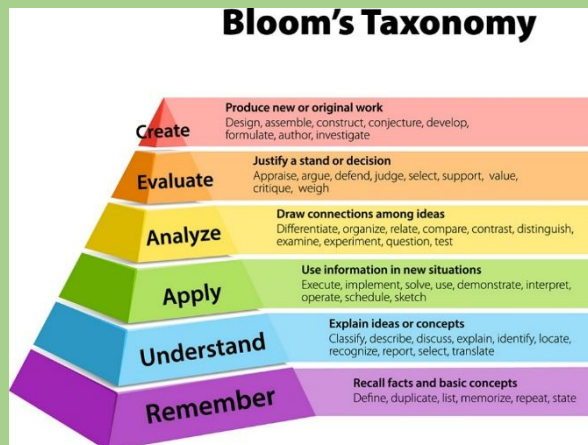
**ABDULLA MIRZA**



## OF WEBINARS AND SESSIONS

The **webinar** allows for better interaction among teaching-learning community as it brings all the facilitators on an equal footing by sharing and discussing the best practices. Further, in classrooms, it helps remove the scepticisms from the minds of the students who are not confident enough to raise their hands and ask questions in a classroom full of students. Increasingly, people can access high quality education via the internet. The proliferation of internet-based education has opened access to education to a wider population through real-time online classes. It means there are plenty of people advancing their knowledge and skills who would otherwise not have been able to do so.

This is where webinars come in. Webinars – web-based multimedia lessons, seminars, discussions, and demonstrations– offer the very same advantages that online classes do, namely the ability to reach dozens or hundreds of people all around the



world, with additional advantages included as well. Importantly, the benefits of webinars mean that educational institutions and companies of all sizes never have to compromise on the quality of their education. BVM facilitators attended various (individual, subject specific and combined) training sessions, webinars and workshops organized by different educational bodies.



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## **OF THE HISTORY: QUANAH PARKER - LAST CHIEF OF THE COMANCHE**

The last Chief of the Quahadis Comanche, Parker was both a major resistor to white settlers, as well as a leader in the tribe's adjustment to reservation life.

Quanah was born around 1845 to Chief Peta Nocona and Cynthia Ann Parker, a white captive of the Comanche, near the Wichita Mountains of Oklahoma. After 24 years of living with the Indians, Quanah's mother was recaptured in the Battle of Pease River by Texas Rangers. After his wife's recapture, Quanah's father was a broken and bitter man and soon died. However, before his death, he told Quanah of his mother's capture by the whites and with that, other tribesmen soon began to call him a half-breed and before long, the group split.

Quanah joined the Destanyuka band of the Comanche, but later formed his own band called the Quahadis, which eventually grew to become one of the largest and most notorious Comanche bands on the Great Plains.

When the Quahadis refused to sign the Medicine Lodge Treaty in 1867, they became fugitives, continuing their buffalo-hunting way of life and sometimes raiding white settlements in the Texas Panhandle.

In 1871 and 1872, several attempts were made by the Fourth United States Cavalry to subdue them but all in vain. However, when numerous buffalo hunters began to invade their hunting grounds, Quanah, along with Comanche medicine man Isa-tai, sought to rid those who were decimating their chief source of survival and attacked their camp at Adobe Walls.







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Though Quanah had recruited some 700 warriors from not only his own tribe but also that of the Cheyenne, Arapaho and Kiowa, the attack on the Adobe Walls camp, occurring on June 27, 1874, was in vain. The buffalo camp, where only 28 men resided, fought off the Indians with their superior weapons and the warriors were forced to retreat. Quanah was wounded in what is referred to as The Second Battle of Adobe Walls and within a year, Parker and his band of Quahadis surrendered and moved to the Kiowa – Comanche reservation in south-western Oklahoma.

Though most of the Indians found the transition to reservation life extremely difficult, Quanah adapted so easily that he was soon made the chief. For the next 25 years, he provided leadership — promoting self-sufficiency and self-reliance on the reservation — building schools, creating ranching operations, and planting crops. He also served as a judge on the tribal court and established the Comanche police force. Overall, he encouraged the tribe to learn the vast majority of the white man’s ways.

However, he did not reject the Comanche traditions altogether, continuing to maintain five wives, refusing to cut his long braids, and rejecting Christianity. Through his own investments, he became a wealthy

man, some say, the wealthiest Native American of the time. Though praised by many in his tribe, Quanah was also criticized for “selling out to the white man.” He also received rebuke because he was not elected the chief by the Comanche tribe, but rather, was given the role by federal agents. Because of this and the claim that Quanah was never given the title of chief before 1875, many assert that Chief Horseback is actually the last Comanche chief. Despite his efforts to protect the tribe and their reservation lands, in 1901, the U.S. Government voted to break up the Kiowa – Comanche reservation into individual holdings and open it to settlement by outsiders.

Parker spent the rest of his life operating his profitable ranch. On February 23, 1911, he died of an undiagnosed illness. He is buried at Fort Sill, Oklahoma.

**ARYAN KUMAR**



# MANDIRIAN SENTINEL

APRIL-JULY, 2020

*Edition II      BIRLA VIDYA MANDIR, NAINITAL*

## **OF MATHEMATICS: 16-YEAR-OLD INVENTS NEW MATHS THEORY**

It's common for some high school kids to need the help of a math tutor. For others, numbers come naturally. And then there's Tamar Barabi. The Israeli teenager has just invented a new geometric theorem. Like most discoveries, the Eureka moment happened by accident. Tamar turned in her math homework and the teacher said that the theory she used to solve the problem didn't actually exist. "He said if I could prove it, it could be my theory. So that's what happened," Barabi told 'From The Grapevine'.

With help from her dad, who is also a math teacher, she sent the theorem to experts around the world. Known as the Three Radii Theorem, or 'Tamar's Theory' for short, it goes as follows: "If three or more equal lines leave a single point and reach the boundary of a circle, the point is the center of the circle and the lines are its radii." Believe it or not, that's the simple explanation. To compose the actual

theorem, Barabi had to write up three proofs, a series of conclusions and some sample exercises.

"Tamar deserves praise for finding a new twist of stating that a circle has only one center and only one radius," Professor Ron Livne, who teaches at the Einstein School of Mathematics at Hebrew University in Jerusalem, told 'From The Grapevine'.

Added Ofer Grossman from the Massachusetts Institute of Technology: "It's cool to see how Tamar's theorem can give elegant proofs for other important theorems." Whiz kids seem to be growing on trees in Barabi's woods. She follows in the footsteps of fellow Israeli teen Ronni Oron, who recently won praise from NASA for inventing a tool for producing oxygen in the outer space. When she's not coming up with new math theorems, Barabi spends most of her time after school taking ballet lessons. She also plays the guitar and piano.

**NAKSHATRA KANCHAN**



# MANDIRIAN SENTINEL

APRIL-JULY, 2020

*Edition II*

*BIRLA VIDYA MANDIR, NAINITAL*

## **OF SCIENCE: BIGGEST RECENT DISCOVERIES IN SCIENCE**

The most mind-boggling scientific discoveries of the year include the first image of a black hole, a giant squid sighting, and an exo-planet with water vapour.



A computer simulation of how a super massive black hole's accretion disk and its event horizon might appear to a telescope on earth.



Over 5.5 million miles from Earth, a Japanese spacecraft landed on the surface of an asteroid called Ryugu in July.

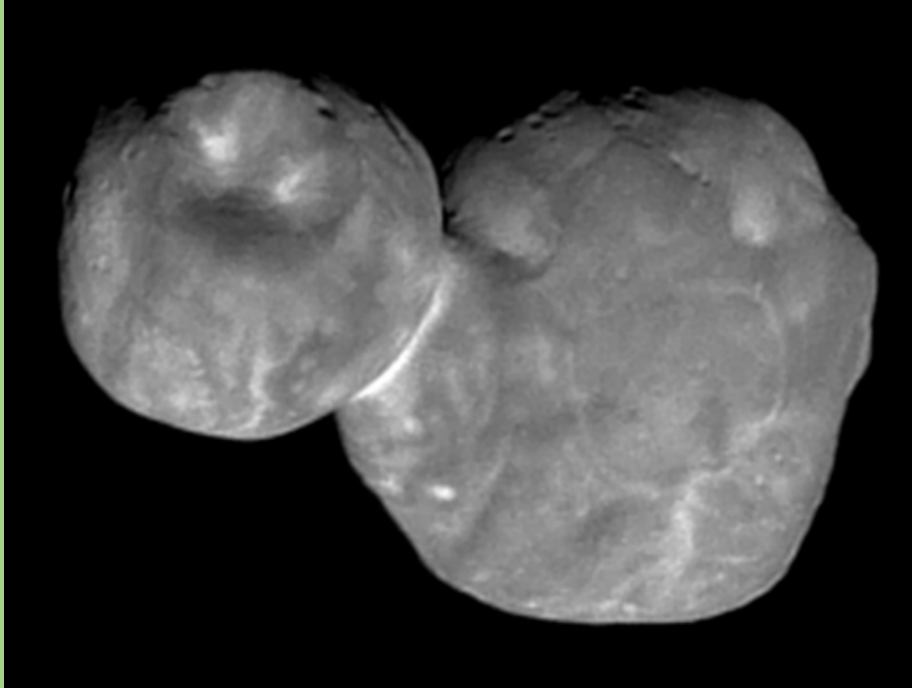


# MANDIRIAN SENTINEL

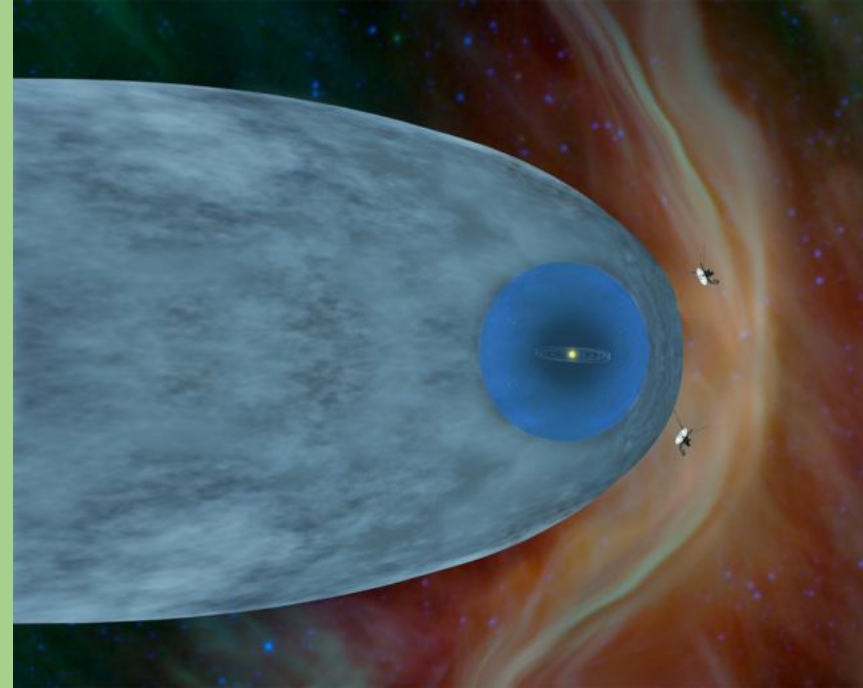
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On New Year's Day, NASA's nuclear powered New Horizons spacecraft flew past a mysterious, mountain sized object 4 billion miles from Earth.



NASA's Voyager 2 spacecraft left our solar system this year and entered the depths of the interstellar space.

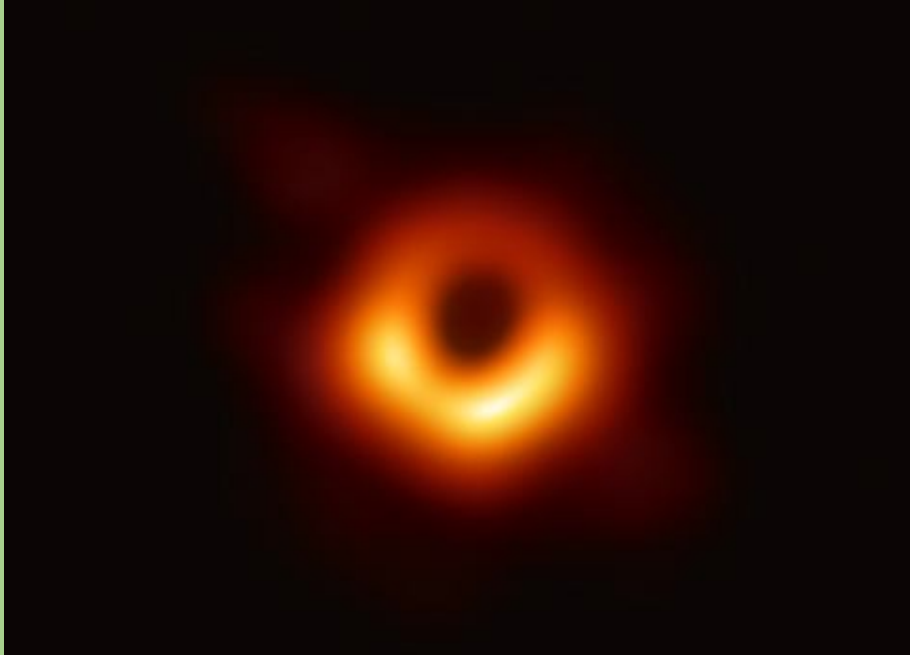


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This was also a watershed year for the study of black holes. In April, the event Horizon Telescope team published the first ever image.



In August 2019, astrophysicists detected the aftermath of a collision between a black hole and a neutron star.



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In April, anthropologists discovered teeth and a finger bone from a new species of human ancestors. The new species, named *Homo Luzonensis*, after the Philippine island on which it was discovered, lived between 50,000 and 67,000 years ago.

**KAUSTABH PANDEY**



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## **HEAD OF THE FAMILY SPEAKS**

First of all, hearty congratulations to the outgoing batch for the outstanding result. I wish them all the luck in their future endeavours. Also I wish to share with you people all that I have found and observed all these years. It is indeed true that teaching a leader of a team, too, is essential and could be done by telling him not to react negatively to criticism or setbacks during a group activity; instead, to show leadership through constructive feedback and to find positive alternatives in potentially bad outcomes. A leader takes on challenges and looks at them not as a burden or something that is insurmountable, but as something exploring his best options.

The leader of a school not only has the task of solving the problems, but also of presenting the base of the school. It has been my personal statement for an educational set-up.

A leader must actively engage his team to explore the possible solutions that will ultimately solve the problem. His synergy, especially when leading a team, speaks to first being a good communicator.

Sometimes, it means negotiating with the team to collectively agree to utilize a solution that the leader believes will be the best route to success.



It is mandatorily about building collaborative learning and teaching relationships within the school. Students, teachers, leaders, and the community together can contribute to collective knowledge. Also leaders need to be service oriented—the idea of putting someone else's needs, or in this case, the team's needs before your own is an important leadership quality. It is a healthy approach and right attitude for all stakeholders to practise and embrace.

These are testing times for all of us. I hope we would safely reach 2021. Stay positive....stay productive.....

**(PRINCIPAL)**



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