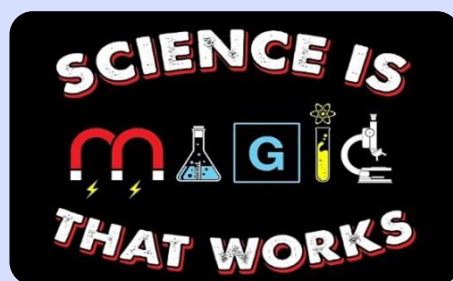


# SciEnspire!



## Mahavir Senior Model School

# SciENspire



## SCIENCE E-NEWSLETTER

## SESSION 2021-2022



### FROM THE PRINCIPAL'S DESK

*"Science is a way of thinking much more than it is a body of knowledge."*

*We, at MSMS, aim to inculcate scientific temper among our students. Mahavirians are helped to co-relate the scientific concepts through hands-on experiments and activities.*

*Our highly qualified and trained faculty enables the students to carry out activities, observe, derive and conclude. This helps students to learn, discover, explore and innovate.*

*This newsletter, especially curated by the Science Faculty, provides us with a comprehensive glimpse of the profusion of activities done with the students to make them learn the way they love to learn.*

*Ruchika Sukhija*  
*Principal*





### MESSAGE FROM SCIENCE TEAM LEADER

*We cannot always build the future for our youth but we can build our youth for the future --- Franklin D. Roosevelt*

*Science Department at MSMS is continuously striving to achieve and inculcate practical behaviour to develop the scientific aptitude in the students. Enthusiastic and hard working faculty members of science department are actively engaged in organising activities, workshops, inter school competitions to develop scientific temper, curiosity and to sensitize students to understand the applications of science in our daily life. Year 2021-22 was quite eventful and students at Primary, Middle and Senior level were engaged to learn and explore the applications and advantages of scientific knowledge for building up a healthy competitive spirit.*

*This Newsletter – SCIENSPiRE is an attempt to share the glimpses of the efforts made by our budding scientists.*

*I would like to express my gratitude to our worthy Management for always giving us the unconditional support. I extend my special thanks to our outstanding and cooperative Principal ma'am whose guidance and support have been instrumental in helping us to achieve our goals.*

**Charanjiv Chopra**  
HOD  
Science Department

**SciEnspire!**





## My Healthy Plate



## Talking Planets



## FINDING FUN IN SCIENCE

Students from Classes 3 to 8 engaged in Fun Summer Camp Activities to keep their minds away from the havoc Covid created in May 2021.

## Invisible Ink



## FLAMELESS COOKING



## TOXIN REMOVAL



## Life Cycle of a Moth



## Seed Journal



# VAN MAHOTSAV WEEK



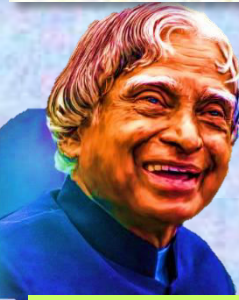
The festival of trees “VAN MAHOTSAV” was celebrated from 1<sup>st</sup> to 7<sup>th</sup> July 2021 to save biodiversity. Awareness campaigns were held at different levels in school to portray the need of planting and tending trees.



- India is among the top 10 forested countries in the world.
- 16 types of forests are found in India.
- 11 percent of plant biodiversity in the world is found in India.
- There are 15,000 species of flowering plants in India.







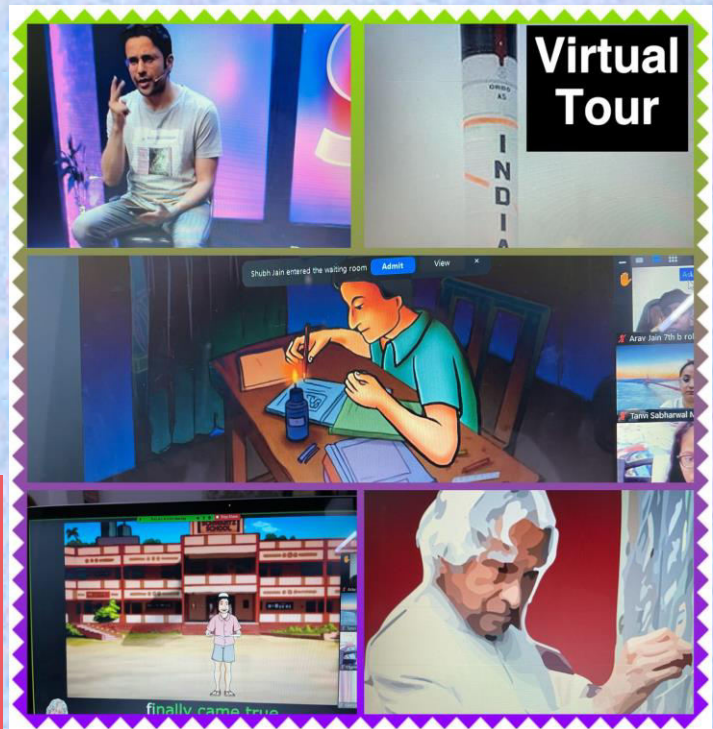
# STUDENT'S DAY

## CELEBRATING BIRTH ANNIVERSARY OF

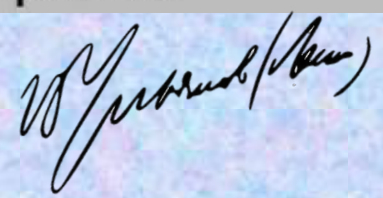
# APJ ABDUL KALAM

15-10-2021

Plethora of activities were taken up to celebrate "Student's Day" like Virtual Tour, Quotes Recitation, Anecdotes of his achievements, etc.



"Every pain gives a lesson and every lesson changes a person."





# VIRTUAL ASSEMBLIES



Covid could keep us away from each other but it did not stop the students from participating in the morning, Zoom assemblies were organized on relevant topics by students to feel proud of their alma mater.

## World Ozone Day

**PLEDGE**  
On the Occasion of World Ozone Day, we pledge to make efforts for the preservation of the Ozone Layer. We, further resolve to be Ozone friendly citizens and promote use of Ozone friendly goods and services. We shall make all efforts to restrict and control the emission of Ozone Depleting Substances to the atmosphere and protect and save all forms of life on the Earth. We hereby pledge to protect the mother Earth, save ourselves and protect and conserve natural resources for the future generations.

**THOUGHT OF THE DAY BY ARIN J YADAV**

**Ozone Layer Depletion**

## World Hepatitis Day

**World Hepatitis day**

**WORLD HEPATITIS DAY 28TH JULY**

## World Nature Conservation Day

**"To be whole, to be complete. Wilderness reminds what is meant to be Human; what we are connected to rather than what we are separated from."**

**Onto The End Of This World - By Anshita Chugh**

### How hepatitis is caused ?

- Causes
- Exposure to toxic chemicals.
- Unsafe sex
- Not being vaccinated against hepatitis
- Sharing needles
- Unsafe drinking water
- Having an autoimmune disorder

*Education breeds confidence. Confidence breeds hope. Hope breeds peace.*

— Confucius

LanguageTies.com/wall





# EXPERIENTIAL LEARNING

Learning by doing is not just the way you approach life in general but it is also the way you solve problems, make decisions, and meet life's challenges. Students came up with many ideas to learn by doing.

## Toys from TRASH



## Washing the germs away



## Waste Management Project

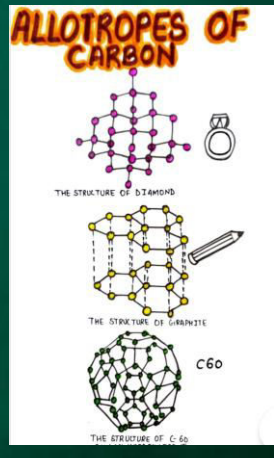
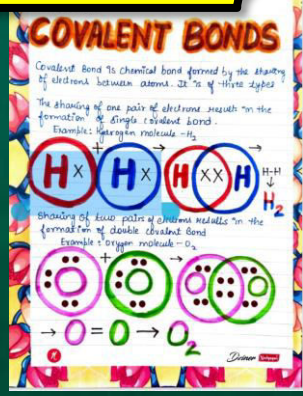
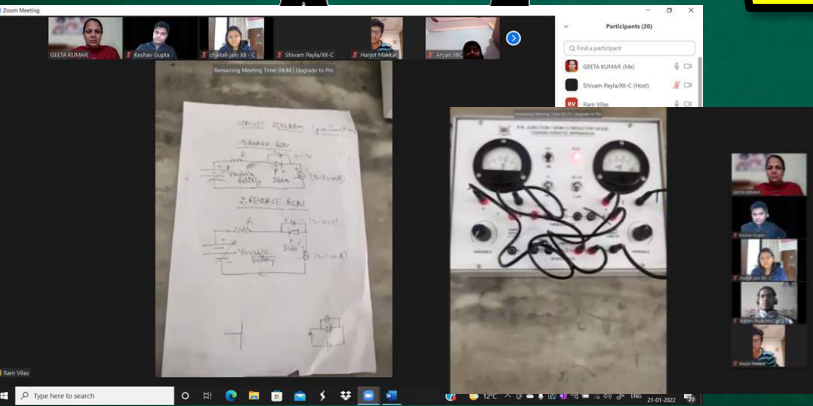


## Feed the birds

## Physics Practical



## Bonding in CARBON





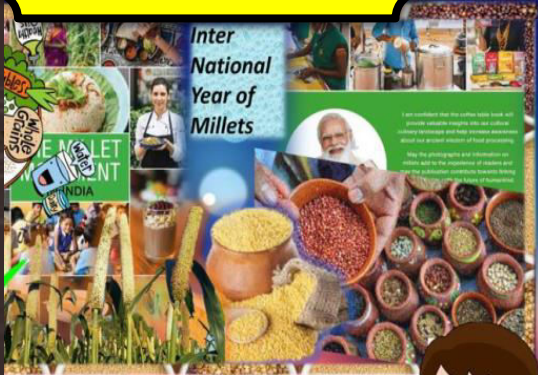
# #HealthyBody #HealthyLife

CELEBRATING INTERNATIONAL YEAR OF MILLETS 2023  
UNDER PRADHAN MANTRI POSHAN SHAKTI NIRMAN

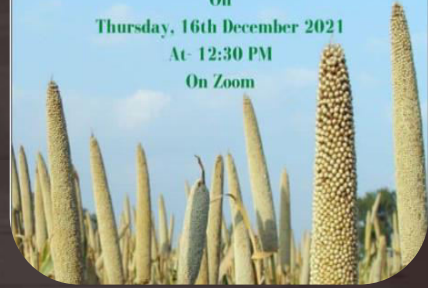
MSMS Science Department Organises an  
Interclass Poetry Competition

For classes VI to VIII  
On  
Thursday, 16th December 2021  
At: 12:30 PM  
On Zoom

## INTERNATIONAL YEAR OF MILLETS

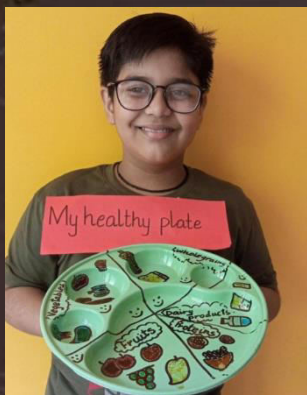


Under Pradhan Mantri Poshan Shakti Nirman, students celebrated the International Year of Millets.



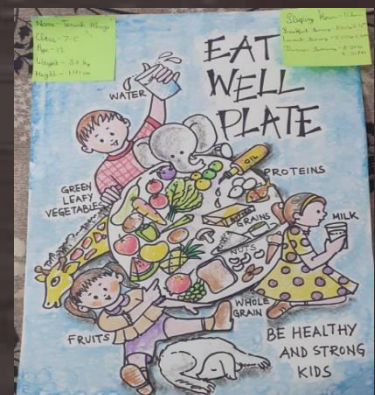
Diet for children  
Eat Better Not Less

RAGHAV GUPTA, 7A, MSMS



## 10 Health Benefits of... Millet

1. Alkalisng
2. Easily Digestible
3. Healthy Colon
4. Lower Cholesterol
5. Lots of Fibre
6. Low GI
7. Reduce Migraines
8. Reduce Heart-Attack
9. Calming Mood Food
10. High in Protein





## Bio Fuel Day

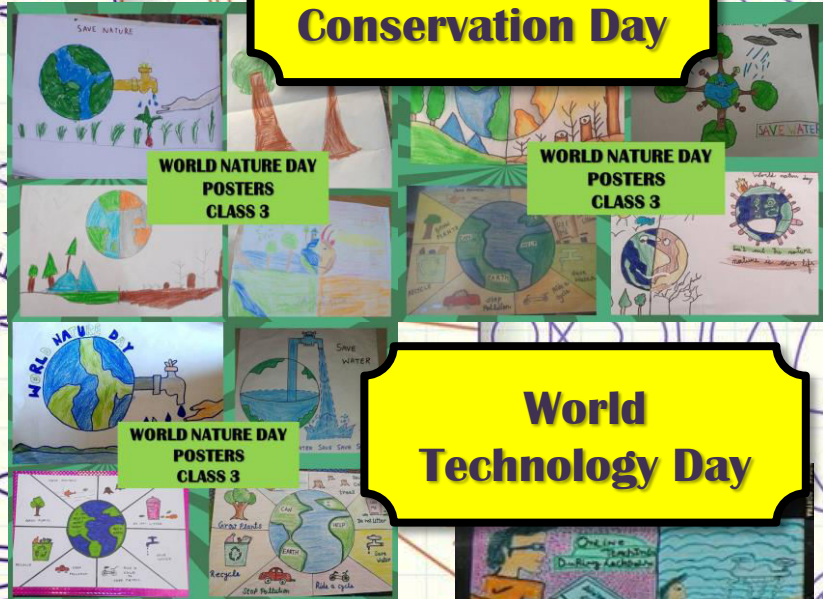


As a way to create awareness on social and natural issues, students celebrated special days throughout the year and learnt ways to fight the issues in their own way!

## World Environment Day



## World Nature Conservation Day



## World Technology Day



## Blood Donation Day



## World Earth Day



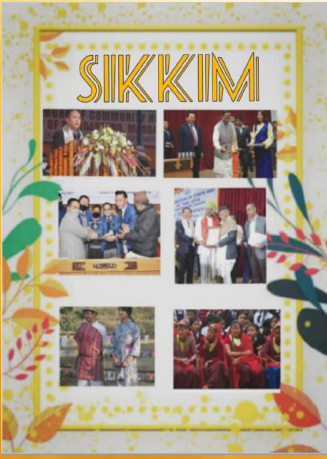
## Vistar

Vistar manufactures air purifiers that use an patent filter technology called ESAPA (Efficient Circular Absorbent Particulate Adsorber) to filter out major pollutants and gaseous contaminants. Vistar air purifiers have been installed by a startup based in Delhi.

1374, Ektaapuri, Gurgaon  
312K  
Ankur Sen  
Vistar School



Introduced by the HRD Ministry, the students researched and tried to adapt the culture from SIKKIM under the Ek Bharat Shreshtha Bharat Scheme.



Our ability to reach unity in diversity will be the beauty and the test of our civilization.

*Mahatma Gandhi*





## INTRA CLASS COMPETITIONS



Students of various classes participate in the intra class competition as a positive way to compete with their peers and support each other no matter wins or losses.

### Coronavirus health and safety

- 1. wearing the mask
- 2. maintain social distancing
- 3. Washing your properly
- 4. use the hand sanitizer

### Class 10 PPT

### MAHAVIR SENIOR MODEL SCHOOL

#### CORONAVIRUS - A DANGEROUS DISEASE

FIGHT

PRANJAL BANSAL X-C

### WASHING HANDS AND USING HAND SANITIZERS

WASHING YOUR HANDS IS EASY, AND IT'S ONE OF THE MOST EFFECTIVE WAYS TO PREVENT THE SPREAD OF GERMS. CLEAN UP CAN STOP GERMS FROM SPREADING FROM ONE PERSON TO ANOTHER AND THROUGHOUT AN ENTIRE COMMUNITY.

WET YOUR HANDS WITH CLEAN, RUNNING WATER. TURN OFF THE TAP AND APPLY SOAP.

LATHER YOUR HANDS BY RUBBING THEM TOGETHER WITH THE SOAP SCRUB YOUR HANDS FOR AT LEAST 20 SECONDS.

RINSE YOUR HANDS WELL UNDER CLEAN, RUNNING WATER. DRY YOUR HANDS USING A CLEAN TOWEL.

YOU CAN ALSO WASH WITH SANITIZER HAVING 60% ALCOHOL.

### Class 4 Make your Organ

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

**My Favourite Organ - LUNGS**

### TOGETHER WE CAN BEAT CORONAVIRUS

A presentation by:-  
Aditya Koppuram X-C  
RISHU JI X-B  
M.S.M.S.

### CORONAVIRUS "WE CAN BEAT IT TOGETHER"

MADE BY:- KAVYA HIRAWAT X-B

### Class 3 Reuse the Waste



THE BEST PART OF COMPETITION IS THAT THROUGH IT WE DISCOVER WHAT WE ARE CAPABLE OF - AND HOW MUCH MORE WE CAN ACTUALLY DO THAN WE EVER BELIEVED POSSIBLE



### Class 10 Debate





# SPARKLING STARS OF MSMS

Young Mahavirians made us proud by winning accolades both Globally and Nationally.

Mahavir Senior Model School  
**CONGRATULATIONS**

TO OUR BRIGHT AND YOUNG CRUSADER WHO BROUGHT LAURELS TO MSMS BY SECURING 1<sup>ST</sup> AND 2<sup>ND</sup> POSITIONS IN INTERSCHOOL COMPETITION

OUR CHAMPIONS

1<sup>ST</sup> POSITION  
MINE O GAME

2<sup>ND</sup> POSITION  
EARTH CRUSADER

Mahavir Senior Model School  
**CONGRATULATIONS**

TO OUR BRIGHT AND YOUNG PANELIST FOR SCIENCE CONCLAVE 2021, SHE BROUGHT LAURELS TO MSMS BY SECURING 2<sup>ND</sup> POSITION IN INTERSCHOOL COMPETITION ORGANISED BY APEJAY SCHOOL SAKET.

2<sup>ND</sup> POSITION  
TOPIC FOR PANEL DISCUSSION  
PIONEER BREAKTHROUGH: VACCINATION AND PANDEMIC

Mahavir Senior Model School  
**Congratulations**

TO OUR YOUNG CHANGEMAKERS FOR OUTSTANDING SPEECHES ON EARTH DAY THAT WILL BE FEATURED ON THE FACEBOOK PAGE OF YOUNG CHANGEMAKERS UK

ARAVYAN VIB  
HARSHMAT KAUR VIB A  
BHAVIJOT SINGH VIB

Mahavir Senior Model School  
**CONGRATULATIONS**

TO

**ANSHITA CHUG**

OF 12C

FOR ACHIEVING THIRD POSITION

IN

**TALENT FAIR: WISDOM IN FOOD**

ORGANISED BY QUEEN

Go Green, Be Green, Stay Green  
Mahavir Senior Model School  
**CONGRATULATIONS**

TO

DEBOPRIYA GUPTA AND GAURI JAIN OF 9A

FOR ACHIEVING THIRD POSITION

IN

VANMAHOTSAVA: COMIC STRIP VIDEO

Organised by Maharaja Agrasen Public School on 7/8/21

## WINNING IS NOT EVERYTHING, BUT THE EFFORT TO WIN IS.

Mahavir Senior Model School  
**Congratulations**

INTERNATIONAL INNOVATION SUMMIT - IMAGIVATION 2021  
Congratulations to our school toppers in INTERNATIONAL INNOVATION OLYMPIAD

UDAY SOOD VII C GROUP II

ANGAD BEHER X-C GROUP III

Mahavir Senior Model School  
**Congratulations**

INTERNATIONAL INNOVATION SUMMIT - IMAGIVATION 2021  
Congratulations to our school toppers in THE IMPACT EXTEMPORE

SHREYAAN GUPTA VII C GROUP II

KHUSHI AGGARWAL XII-C GROUP III

Hindustan Times  
Students of MSMS, GTK Road, shine in Global Changemakers contest

It was a proud moment for Mahavir Senior Model School (MSMS), GTK Road, when its students brought laurels to their institute with their exemplary performances in a speech competition organised by Global Changemakers and got a place on United Kingdom's official Facebook page and website of Young Global Changemakers.

Global Changemakers, an international youth organisation and global pioneer in supporting youth-led sustainable development, was created by the British Council with an aim of empowering youth to catalyse change.

This organisation supports youth to create positive change in their communities all over the world by providing skill development, capacity building, mentoring etc.

The name of the competition organised by Global Changemakers was Earth's Sake – an inter-globe speech competition. The topic for the competition was – environmental protection.

More than 25 young Mahavirians participated in that competition and showcased their affinity towards nature.

Arav Jain and Bhavijot Singh, both from Class 6B, and Harshmat Kaur of Class 8A were selected among the top 10 participants who gave an impactful speech.

The judges were extremely impressed by their emphatic speech, expressive language and clear ideas that won their hearts. Their speech focussed on the need to protect and conserve the environment.

The organisation mentioned that these speeches would be featured on Young Changemakers' official Facebook page and website.

(From top) Bhavijot Singh, Harshmat Kaur and Arav Jain were selected among the top 10 participants



# CHEMISTRY IN ACTION


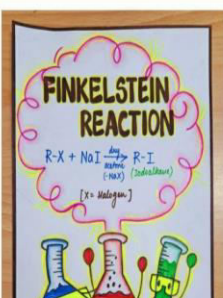
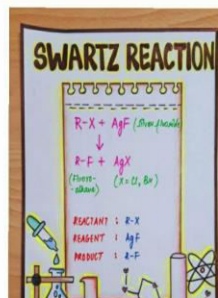
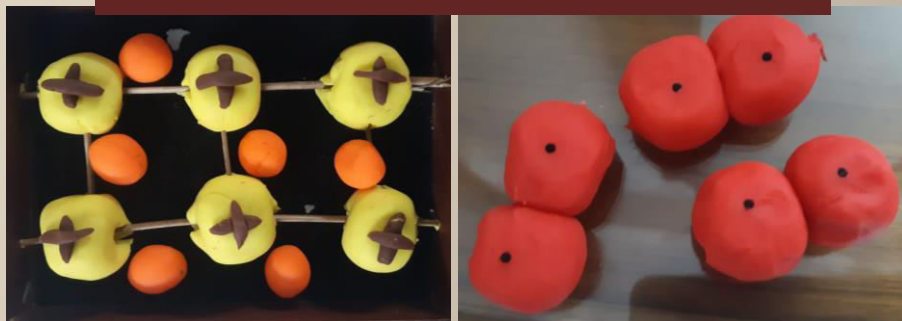
Chemistry Experiments  
through Virtual  
platform

Students from classes 6 to 12 were involved in chemistry experiments through –Virtual platform directly from Chemistry lab, olabs and hands on Experiments



Innovative way to learn  
Chemical Bonding

HANDS ON  
EXPERIMENTS



# CHEMIST

WE ARE PERFECT FOR  
SOLVING PROBLEMS  
BECAUSE WE HAVE ALL THE  
**SOLUTIONS**



Poster Perfect  
Reactions



# FUTURE

# PHYSICISTS AT MSMS



**Students were encouraged to learn the concepts of physics by Simple classroom activities.**

## Newton's Third law



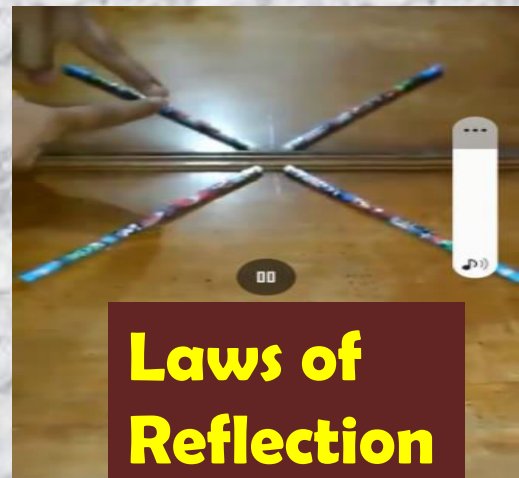
## Centre of Mass

## Viscosity



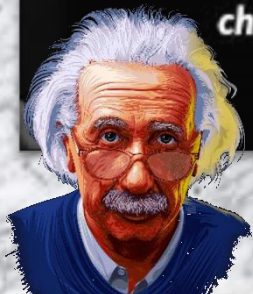
## Calculating g

**Enjoying Physics with Simple classroom activities**



## Laws of Reflection

“ When you change the way you look at things, the things you look at change. ”



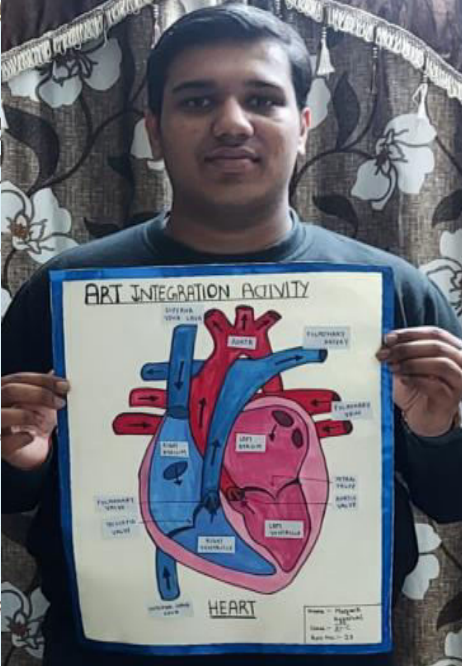
## Interference



## Electrostatics

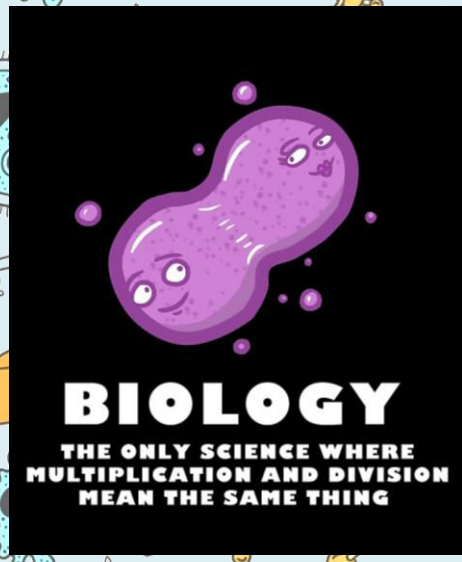
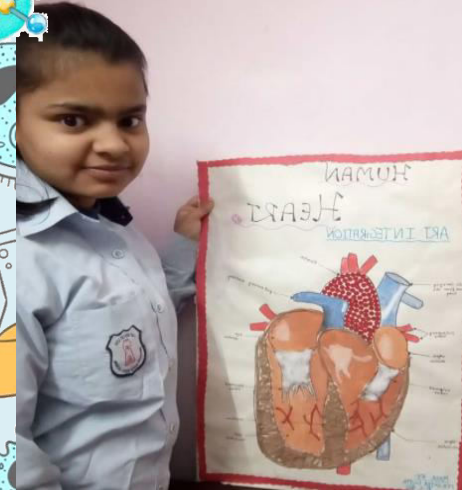


# WORLD OF BIOLOGY



## ART INTEGRATION

Students of MSMS participated in various activities inculcating art integration





Students from various classes participated in many competitive exams in the session 2021-2022



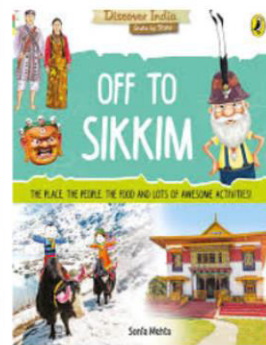
SOF NATIONAL SCIENCE OLYMPIAD



पर्यावरण संरक्षण



KDU



Junior Science Talent Search Examination

POSHAN Abhiyaan

PM's Overarching Scheme for Holistic Nourishment



सही पोषण - देश रोशन



NTSE

National Talent Search Examination



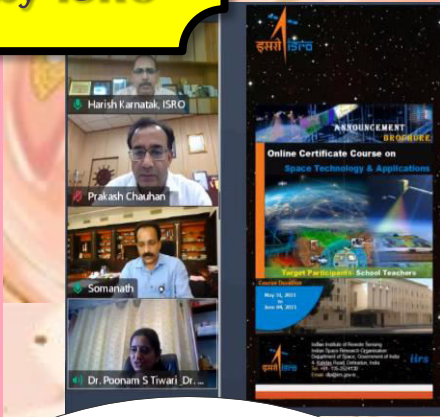
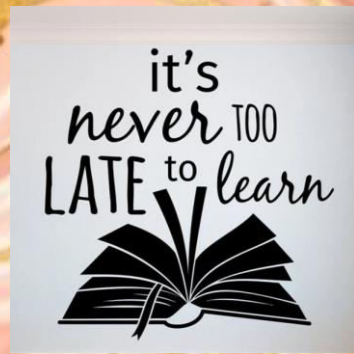


## CONTINUOUS PROFESSIONAL DEVELOPMENT

Continuous training have been willingly taken up the Science Department Faculty Members in order to always be equipped with the best pedagogy for the students.



### IIRS Training by ISRO



### MCQ Paper Designing Workshop

### Hepatitis Day at Institute of Liver and Biliary Sciences



### Science Faculty







**We hope you all enjoyed the glimpses of the fruitful indulgence of our shining Mahavirians.**

**The journey has just begun  
Searching for the way ....  
Walking through the shiny SUN.....**

**It's a bright new day .**



<https://www.facebook.com/mahavirseniormodelschool>



<https://www.instagram.com/msmsdelhi/>



<https://www.youtube.com/channel/UCkq91NhGMbnV34Izo6ltKDw>

**SciEnspire!**

**THANK YOU !  
TEAM MSMS  
SCIENCE DEPARTMENT**