

SciEnspire!



Mahavir Senior Model School

SciEnspire



SCIENCE E-NEWSLETTER

SESSION 2022-2023



FROM THE PRINCIPAL'S DESK

Welcome to the Science Newsletter from MSMS! It is with great honour and enthusiasm that I present to you the Science Newsletter "**SciENspire**" for the Session 2022-23. Our goal is simple: generate interest among students across all grades towards learning of Science and cultivate a scientific environment that is student-driven -- where everyone's creativity can shine through.

At MSMS, we consider it a priority to foster an open atmosphere where students are encouraged to constantly inquire, explore new ideas, and expand their intellects. Going through the newsletter, I could not be more proud of all that our students have been able to accomplish in such a short span of time. This publication stands as testament to their hard work and dedication.

Our student innovators strive daily, not just in the classroom setting but beyond – from inquiry-based learning projects to participating in science competitions both locally and on a national level. By engaging passionately with various facets of STEM curriculum outside of textbooks, our students cater foundational knowledge about theories into purposeful useable solutions applicable today.

As Albert Einstein aptly stated "Imagination is more important than knowledge" – here, at MSMS, we stand behind such achievements which also builds transferrable skills necessary for any career trajectory choice made down the line. Using this platform, I thank you all – Mrs. Charanjiv Chopra, HoD Science, faculty members, parents & especially students for their relentless efforts.

And my dear Mahavirians, embrace your passion and most importantly remember : there are no limits for learning and growing. So, work hard today and shoot up higher as a bright future beckons you!

Happy Exploring! Happy Reading!

Ruchika Sukhija

Principal

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MESSAGE FROM SCIENCE TEAM LEADER



“Logic will take you from one place to another, but imagination will take you everywhere.”

- Albert Einstein

Science Department, MSMS strives to promote student’s potential, recognise their skills and tailor specific activities to complement their hidden talent. The year gone by can be defined as a year of change, achievements and progress by churning of new ideas and outburst of creativity under the able leadership of our dynamic Principal Mrs. Ruchika Sukhija.

*The objective of Science faculty is to develop scientific temper from an early age to ensure that our students are able to apply logic in a better way. The able team members of science department weaved the activities related to **Sustainable Development Goals** throughout the year.*

This session offered bounty of learning experiences to our students who participated and brought laurels to the school through their achievements in Inter school competitions, Olympiads and National Level Competitive entrance exams.

This newsletter aims to inform and connect with you regarding our attempt to sow the seeds of interest in Science, among young Mahavirians.

*We express our heartfelt gratitude to our **visionary** Management members and versatile Principal for their inputs, constructive feedback and unwavering support to lead our department to greater heights.*

With best wishes

Charanjiv Chopra

H.O.D.

Science Department

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MSMS ECO-CLUB

Go Green...there is no planet B

Eco Club in MSMS was established to conserve the natural resources and to create awareness of biodiversity conservation and local environmental issues among young ambassadors through various innovative methods. MSMS Eco Club nurtures and teaches the importance of environment to students.



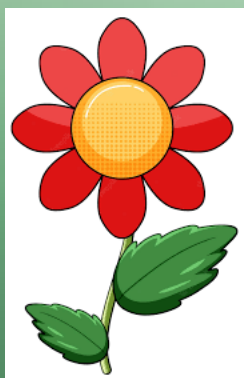
MSMS ECO-CLUB



MSMS ECO-CLUB
throughout the year
organized plantation
drives, quiz
competitions and
given badges to eco-
saviours.



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ECO-BRICKS

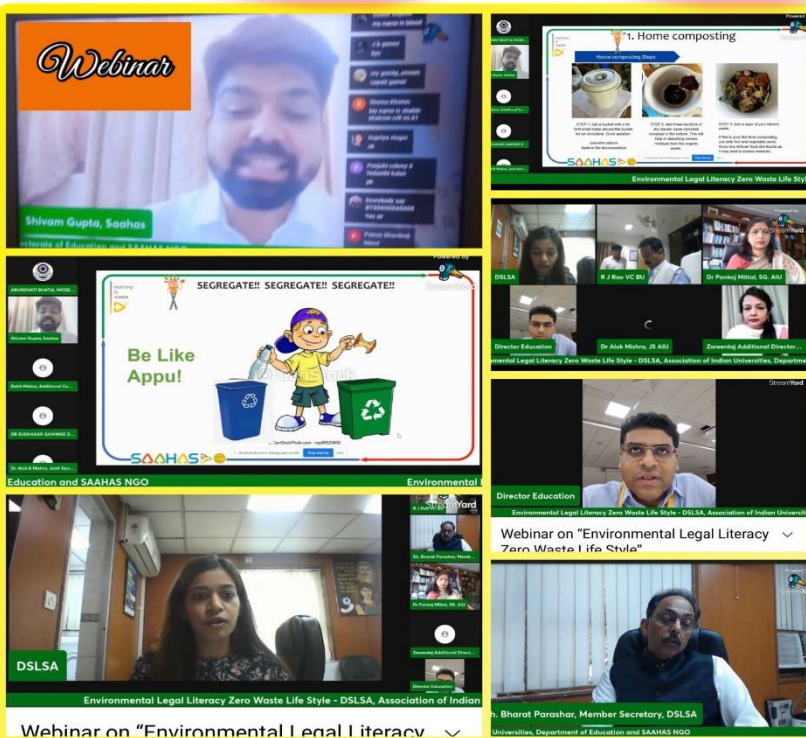
An eco brick is a plastic bottle packed with used plastic to a set density. They serve as reusable building blocks. Eco bricks can be used to produce various items, including furniture , garden walls and other structures. Students prepared eco bricks at home and brought them to school.



Glimpse of World Environment Day celebration



World
ENVIRONMENT
DAY



"Let's nurture the nature so that we can have a better future."

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THINK CLEAN & GO GREEN
To KEEP THIS WORLD CLEAN

Take A Side On
the Green Side.

TREES ARE THE
GIFTS FROM NATURE
SAVE THEM FOR
SUSTAINABLE
FUTURE

TREES ARE
OUR
BEST FRIENDS



Students showcased their creativity and talent on the importance of trees through their posters.





INTERNATIONAL TALK SHOW ON ATMOSPHERIC SCIENCES

An international talk show was organised on 23rd August 2022, Tuesday regarding atmospheric sciences for classes X, XI and XII by eminent speaker Dr. Piyush Garg.

He talked about the uncharted waters of atmospheric sciences and talked about his journey and what they do as federal atmospheric scientists at the US Govt Department of Energy .

He showed some examples of his research using satellites, numerical model simulations, supercomputers, and ground based sensors. He also discussed the overall career opportunities in Atmospheric Sciences in India and abroad. He interacted and answered queries of the students.



SINGLE- USE PLASTIC FREE CAMPUS

***“BAGGING THE PLANET
EARTH IN PLASTIC IS THE
SOLE REASON FOR EARTH’S
POOR PROGNOSIS”.***

Our school joined the war against pollution. Throughout the year, students of classes I to XII participated in various activities to spread awareness and curb the use of Single Use Plastic (SUP).

Following activities were performed:



- ☐ Pledge to Refuse SUP
- ☐ Rally:
- ☐ Poster Making:
- ☐ Essay Writing:
- ☐ Morning Assemblies:
- ☐ Nukkad Natak:
- ☐ Bartan Bhandar:
- ☐ SUP Checking



Celebrating Scientific Aptitude of Mahavirians

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Science Department of MSMS organized a display of Holidays home work done by students of Classes 5 to 9 on Parents Teacher Meeting held on July 16, 2022 in the school premises.

SCIENCE EXHIBITION



The aim is to provide a platform to the students to use their scientific knowledge and think critically .

Our young Mahavirians showcased their scientific aptitude, creativity and talent while working on the topics like - Phasing out single used plastic, Water conservation, Health and Hygiene, Microbial world and save the planet.





STUDENT'S DAY

CELEBRATING BIRTH ANNIVERSARY OF APJ ABDUL KALAM

**Look at the sky. We are not alone.
The whole universe is friendly to us
and conspires only to give the best
to those who dream and work . -**

APJ Abdul Kalam

**On the occasion of Birth
Anniversary of APJ Abdul Kalam,
Science Department of MSMS
organized Mobile Planetarium
shows in association with Leo
Planetaria Astronomy Education
Pvt. Ltd. for the students of classes
1st to 11th on October 18, 2022
Tuesday in the conference hall of
our school. Around 400 students
enjoyed this educational and
amazing event. The following shows
to explore the fascinating universe
were -**

- **Puppy on the Moon**
- Harbingers of doom**
- **Princess Andromeda**
- Deep sky**
- **Journey to Wonderland**
- We are but star dust**
- **Galileo's sky**

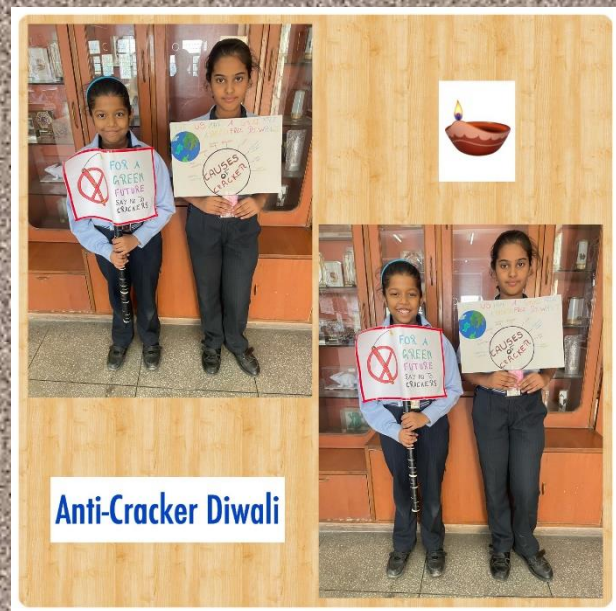


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**Pollution
free Diwali,
brings
everywhere
Khush-hali.**

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**Glimpses of
Anti-Cracker
Diwali activities
organized by
Science
Department**





SCI- EMULATE : ROLE PLAY AS A SCIENTIST

Students from class – 8 portrayed as eminent scientists. They focussed on their life challenges, achievements and got inspiration from their commitment, devotion and dedication. This helped the students to gain confidence, learn concepts and develop scientific temperament.



CLEAN AND GREEN ENERGY SOLAR ENERGY- REDUCTION IN ENERGY BILLS

Students of class X and XII has taken a project on solar energy to know about the working of solar panels installed at MSMS.



SCIENCE EXPO 2023

Science department organised Science Expo on 4th February, 2023 at the school premises. More than 100 students from Classes 6,7 and 9 participated in this event.

Chief Guests of the program were Mrs. Mansi Jain, founder of Aasma playschool and Mrs. Preeti Gupta parent of Raghav Gupta, 8A of MSMS.

The following Intra Class Competitions were conducted:

- ❖ Wealth out of Waste / Science Games
- ❖ Fresh Feast with Little Chefs
- ❖ Graffiti on Board

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Inauguration



Blessings from Jain Sir

PhotoGrid



PhotoGrid



Blessings from Principal Ma'am

PhotoGrid

SCIENCE EXPO



• GRAFFITI on BOARD :

Class 9 students made wonderful graffiti on various Goals of Sustainable Development.



• FRESH FEAST with Little Chefs :

Class 7 students prepared delicious mouth watering flameless dishes like Rice paper dumplings, vegan bridge and cucumber lollies etc.



Science Games/ Toys



PhotoGrid



Wealth Out of Waste & Science Games :

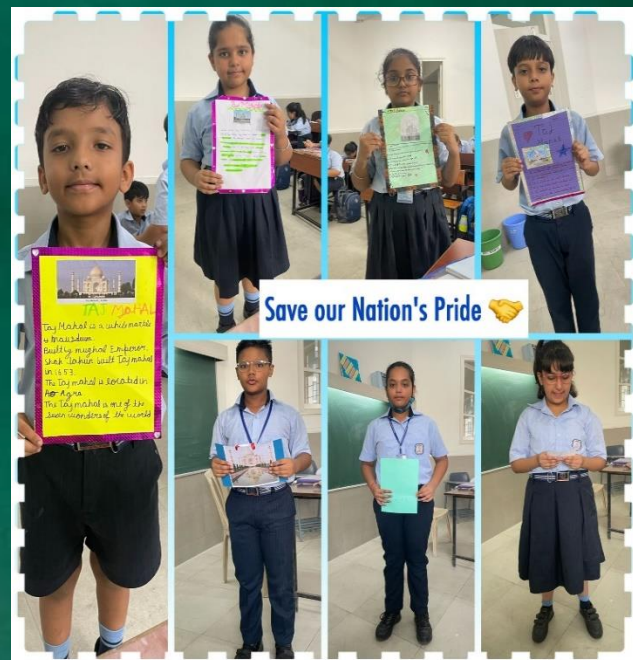
Class 6 students showed their creativity and made innovative Science Games. They also made multi purpose useful objects from reusable items available at home which includes torch, water dispenser , cooler etc.



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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 were taught different concepts with hands on activities.



EXPERIENTIAL LEARNING

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I hear and I forget. I see and I
remember. I do and I
understand.

THE BENEFITS OF
EXPERIENTIAL LEARNING



DEEPER
INSIGHTS



LONG-LASTING
LEARNING



*Work in
Progress*



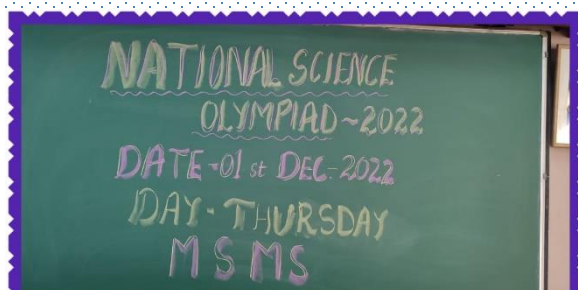
Conserve the precious



In session 2022-2023 students from various classes participated in many competitive exams.



SOF NATIONAL SCIENCE OLYMPIAD



INTERNATIONAL CHEMISTRY QUIZ





LET'S FELICITATE OUR ACHIEVERS

ICQ is organized by Royal Australian Chemical Institute every year.

95 students of MSMS from classes 3 to 12 participated in this esteemed quiz. We feel immense pleasure to share that our Mahavirians came out with flying colours and received Certificate of distinction and medals along with certificate of credit in ICQ.



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INTERNATIONAL
CHEMISTRY QUIZ

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TOGETHER
WE ARE
WINNERS



**SOF NATIONAL SCIENCE
OLYMPIAD**

**NSO is a
rigorous
academic and
scholastic
aptitude
competition
with
qualitative and
quantitative
assessment.**



**NSO PRIZE
WINNERS**

**65 students from
our school
participated in
this Olympiad and
were recognized
with certificate of
excellence and
medals for their
achievements.**



NSO PRIZE WINNERS

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We are so proud of you



Sameeksha Monga of class XII-C got first position in Episteme Inter school competition held in Mt. Fort School.

Ayaan Sachdeva of class VII-A got third position in Rock-Jock Inter school competition of Japsal Kaur Public School.





Scitoon

1st Position	Queen Mary's School, Northend
2nd position	Mahavir Senior Model School Indraprastha International School

Samiksha Jain and Nitigya of class X got second position in Expressions inter school competition of Mata Jai Kaur Public School



Arnav Verma of class V got second position in Poster Making Competition organised by TERI under ENVIS scheme by Ministry of Environment

WINNERS



Congratulations!
WE ARE
PROUD OF YOU!



JEE (Main)

Joint Entrance Examination



MSMS DELHI
MSMS Delhi
Mahavir Senior Model School

Consistent
There is no substitute for hardwork
Congratulations
to Our Shining Star



JEE Mains 2023 99.58 Percentile

MAHAVIR
SENIOR MODEL SCHOOL

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It gives us immense pleasure to share with you that one of our student of Class 12th C - Science section - **PRABHAT SATI** has scored 99.58 percentile in JEE Mains exam 2023.

He is also a proud receiver of Excellence Award in the Australian International Chemistry Quiz

8.6 lakhs students in India appeared for this exam and Prabhat Sati of MSMS is amongst the top 1% of these students.



JEE MAINS ACHIEVERS



JEE (Main)

Joint Entrance Examination



PRABHAT SATI 99.58



SAMYAK JAIN 99.53



ARCHIT TANEJA 95.98



TUSHAR CHAUHAN 94.53

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CBSE Science Exhibition

We're so proud of you!

Nishant Jain of class X presented his model named JARVIS in CBSE Science Exhibition and got selected in **National Level Science Exhibition.**





CERTIFICATE

AWARDED TO



पुष्प से परिवर्तन


The Environment Conclave

Arya Chauhan

Mahavir Senior Model School

This certificate is awarded for securing **second position** in
'The Environment Conclave 2022-23' organised by
Modern Public School.

We thank you for making the event successful with your valuable participation.


ALKA KAPUR
Principal

**Avya Chauhan and
M.Lakshmi of Class VIII
participated in
Environment Conclave
organized by Modern
Public School, Shalimar
Bagh and bagged
second position.**

CERTIFICATE

AWARDED TO



पूण से परिवर्तन


The Environment Conclave

M. Lakshmi

Mahavir Sr. Sec Model School

This certificate is awarded for securing **Second position** in
'The Environment Conclave 2022-23' organised by
Modern Public School.

We thank you for making the event successful with
your valuable participation.


ALKA KAPUR
Principal



Mahavir Senior Model School

The Green School

The proud recipient of
Gold Medal by Green
School Campus
Programme
India & South Asia
2022-2023



GOLD MEDAL WINNER



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MSMS Delhi

MSMS is now a GREEN SCHOOL

MSMS has been awarded GOLD MEDAL by Green School Campus Programme for year 2022-2023 for its relentless efforts in promoting and adopting eco-friendly and energy saving systems like Rainwater Harvesting structures, installation of Solar Panels , usage of LED lights and proper waste management in its school premises.

MSMS is inherent part of INDIAN CLIMATE AWARE SCHOOL NETWORK



TEAM MEMBERS OF SCIENCE DEPARTMENT

**Innovation is the
only way to win.**



<https://twitter.com/MSMSDelhi?s=20>



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



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



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<https://www.youtube.com/channel/UCkqg1NhGMbnV34lzo6ltKDw>

**THANK YOU !
TEAM MSMS
SCIENCE DEPARTMENT**