



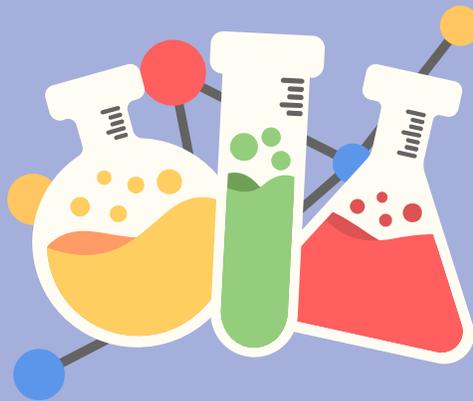
National Public School
Hosur Road

ISSUE-13

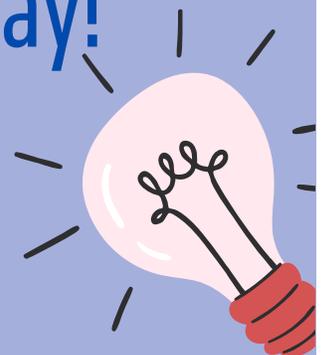
THE FIRST FORUM

"ASK THE RIGHT QUESTIONS, AND NATURE
WILL OPEN THE DOORS TO HER SECRETS."

- C. V. RAMAN



Happy National Science Day!



The Editors speak...



Dear Readers,

We the students of grade 6 jubilantly present before you all the 13th edition of our school newsletter -The First Forum.

In this edition ,we will take you through the events that we celebrated in the month of February. We will introduce the emerging student scientists of our school, and the talents of our young minds. With high spirits,we are unfolding the magic of reading to you all..

Editors' Desk



Kiash Gangineni



Ishan Majumdar



Dhruthi S Kanti

In this edition...

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N'DLI Club leads Science Day celebrations

'Science for Sustainability'

A session on 'Science for Sustainability' was organized by Science department, National Public School, Hosur Road, Bangalore, in the school. It's main objective was to create awareness about the importance of sustainability. As a part of celebrations related to National Science Day, the mission to save the depleting resources was highlighted.

Under the able guidance of our Patron, Mrs. Usha Mahesh Reddy, Director-Principal, the program began, on 28h February 2024, with the opening remarks of Ms. Sreeja Suresh, faculty. Students of grades 5-8 along with the teachers participated in the program. The session was hosted by Ms. Sangeetha Satish, faculty of Science. The program was highly interactive and informative.

Science Department

SCIENCE
-it's-
LIKE
MAGIC
BUT...
Real





Emerging Scientists

National Science Day is a celebration of curiosity, discovery, and innovation! It's a day to appreciate the wonders of science and the scientists who make it all possible.

From exploring space to understanding our planet's ecosystems, science is all around us, shaping our world and our future. So, let's celebrate by asking questions, conducting experiments, and marveling at the incredible world of science. Remember, each one of you can be a scientist too, just by being curious and exploring the world around you! As a part of celebrations, students from grade 6 came up with experiments and demonstrated in the class.

Happy National Science Day!



HritviRaj-6A



“The day science begins to study non-physical phenomena, it will make more progress in one decade than in all the previous centuries of its existence.” —

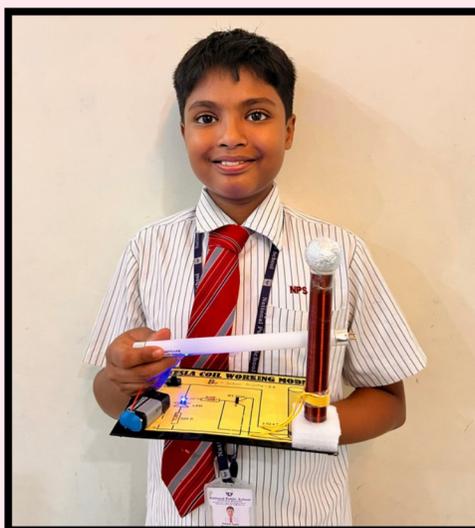
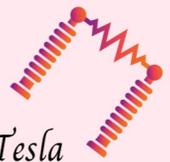
Nikola Tesla

TESLA COIL

A Tesla Coil is an electrical resonant transformer circuit invented by Nikola Tesla

Working:

The circuit of the coil contains a capacitor and a small hole called a spark gap. When the coil is turned on, electricity flows through the circuit and fills the capacitor with electrons, like a battery. This charge creates its own electric potential in the circuit, which tries to bridge across the spark gap.



Soham Gupta-6A



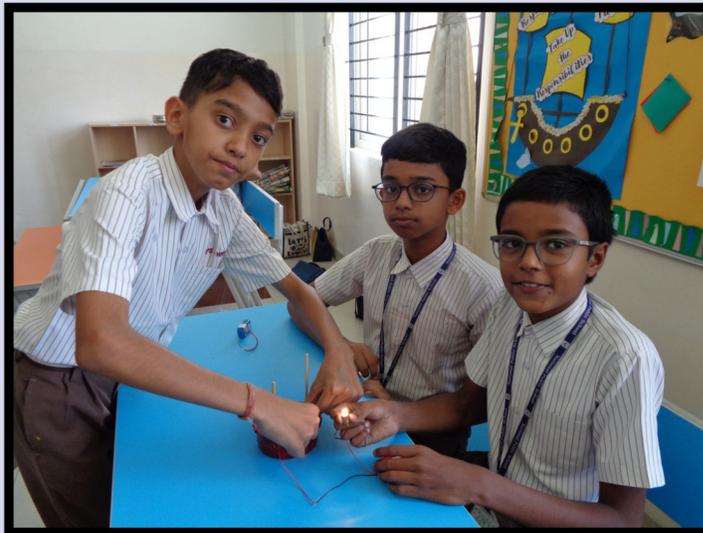
Electricity Passes through Water

This experiment proves that electricity passes through water. In the model, there are 2 iron nails which are partially inside water. When the power is supplied to the model, the bulb glows even when the iron nails are physically not connected!

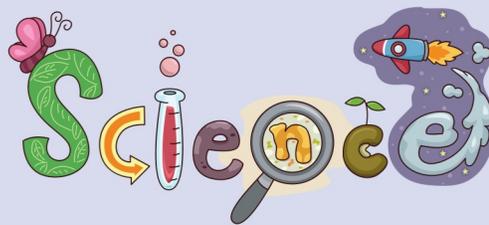
This is because the electricity passes from the battery to the first nail. It then passes through the water into the second nail. Electricity then passes to the bulb, thus making it glow. This is why the bulb glows.

Water conducts electricity because of dissolved gases and minerals. These dissolve into charged ions that freely move and carry electricity with them.

Kiash Gangineni-6A



*Never
STOP
Learning!*





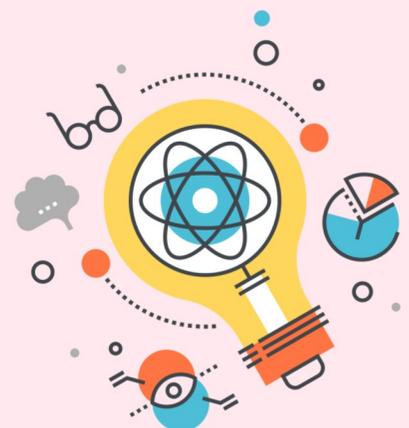
Stemlab Exhibition

As we stepped into the world of innovation and exploration at our STEM (Science, Technology, Engineering, and Mathematics) Lab Exhibition, it was an electrifying showcase of student ingenuity, where creativity meets cutting-edge technology.

Embarking on a journey through a myriad of interactive displays and hands-on experiments, curated by our brilliant young minds, from coding challenges to robotics marvels, we witnessed the power of STEM education in action.

Engaging with our budding engineers as they demonstrated their inventions, from eco-friendly solutions to real-world problems, exploring the wonders of science through captivating demonstrations and experiments that ignited curiosity and sparked imagination.

This exhibition was not just a display of scientific prowess; instead a celebration of innovation, collaboration, and the limitless potential of young minds. All students got inspired by the future leaders and innovators shaping our world at the STEM Lab Exhibition!



RF Communication using a Microbit



The micro bit card is equipped with a Bluetooth radio antenna. The radio antenna on the device operated in the following frequencies, 2.4 GHz to 2.449GHz. The micro bit card therefore allows communications by sending and receiving radio messages in the form of electromagnetic waves.

Press different button inputs on your micro bit to send different messages over radio to another micro bit to tell someone how you are feeling. The output on the receiver micro bit is either a happy, sad, or excited emoji on the LED display.

Make sure you and your partner use a unique radio group so that you can send your messages to a particular micro bit or a particular person who has that micro bit.

The program used a simple kind of code, or encryption. This could stop, for example, another person reading your messages, and keep them secure.

The code used is a simple number cipher. This is a kind of encryption. In this example, 17 means happy, 23 means sad and 42 means excited.

Note- Only numbers or letters can be sent by radio and not emojis.

Agreeing to a unique radio group, a set of possible messages, and a way of encrypting those messages with a partner means you have agreed a protocol, or rules for communicating and keeping your messages secure. Use this sheet to plan your own messaging protocol.

Manvit Kappa -6C





Pollution - A Serious Threat



Pollution is a severe environmental issue affecting our planet.

POLLUTION IN TODAY'S CITIES:

Living in a bustling city exposes people to high levels of air pollution. Harmful substances such as carbon monoxide, nitrogen dioxide, sulfur dioxide, and particulate matter are present in the air we breathe. These pollutants can result in respiratory issues, allergies, lung cancer, and heart diseases. To reduce the impact of air pollution, government organizations take several measures. To ensure clean air at home we can do things like :-

- Ensure proper ventilation
- Use air purifiers
- Maintain our vehicles
- Support sustainable practices like carpooling and public transportation



Measures to keep pollution in check:

To combat it, we must promote sustainable practices like reducing emissions, conserving resources, adopting clean energy, and implementing effective waste management. Public awareness and education are crucial for changing behaviors and fostering environmental responsibility.

By taking collective action to reduce pollution, we can create a cleaner and healthier planet for future generations.

Jeevardhini Baranidharan-6A





Exploring The Lunar Frontier: Chandrayaan -3

It was indeed a proud moment for India when Chandrayaan 3 was launched. Even after the failed mission of Chandrayaan 2, India did not give up hope. ISRO (Indian Space Research Organization) decided to look into the mistakes made in Chandrayaan 2 and tried to analyze and not repeat them in the mission Chandrayaan 3, thus leading to success.

Let's delve into 5 fascinating facts about Chandrayaan-3 and its significance.

- **Collaborative Efforts:** Chandrayaan-3 is a joint effort between ISRO and the Russian Space Agency ROSCOSMOS. This collaboration demonstrates international cooperation in the field of space exploration and leverages the expertise of both nations.
- **Focus on Landing:** Unlike Chandrayaan-2, which consisted of an orbiter, Lander (Vikram), and Rover (Pragyan), Chandrayaan-3 was solely focused on the lander and rover components. This mission's primary goal was to achieve a soft landing on the Moon's surface which it did on 23th August 2023.
- **Aimed for Precision:** The Chandrayaan-3 mission targeted a high-precision landing in the unexplored region near the Moon's south pole. This area is of particular interest due to the presence of water, ice in permanently shadowed craters. Till now no country has ever attempted a soft landing in the unexplored south pole. The success of soft landing opens new chapters for India.
- **Advancing Lunar Research:** Chandrayaan-3's mission objectives include further exploration of the Moon's geology, understanding its surface composition, and analysing the potential presence of water ice. The data gathered will contribute to our knowledge of lunar evolution and provide insights into the Moon's history.
- **Looking for space fuel:** The Pragyan rover will be searching for Helium-3 or He-3, which might be utilised as fuel for extremely cool nuclear fusion reactions, in addition to looking for water ice on the Moon. The same fusion process that drives the Sun and other stars can be used to provide a nearly endless supply of clean energy on Earth without producing any radioactive waste.

New adventures await, and ISRO is working on the new lunar mission Chandrayaan 4. We all hope for the best.

-Sadhana 6-C



Amazing Facts



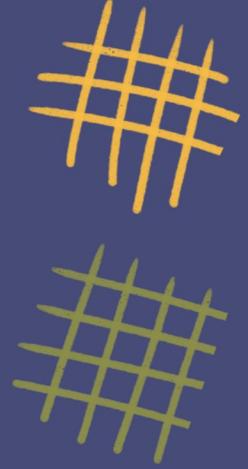
- *The Eiffel Tower gets taller in the summer.*
- *Human teeth are the only part of body that can't heal itself.*
- *A Shrimp's heart is in the top of it's head.*
- *Supermarket apple can be a year old.*
- *Venus is the only planet that spins clockwise.*
- *Blue whale's heartbeat can be detected two miles away.*
- *Statue of liberty was once a light house.*
- *Vatican City is the smallest country in the world.*
- *Letter 'J' was the last added to the English alphabet.*
- *Competitive art was once an olympic sport.*
- *Hot water will turn into ice faster than cold water.*
- *The strongest muscle in the body is the tongue.*



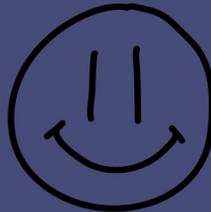
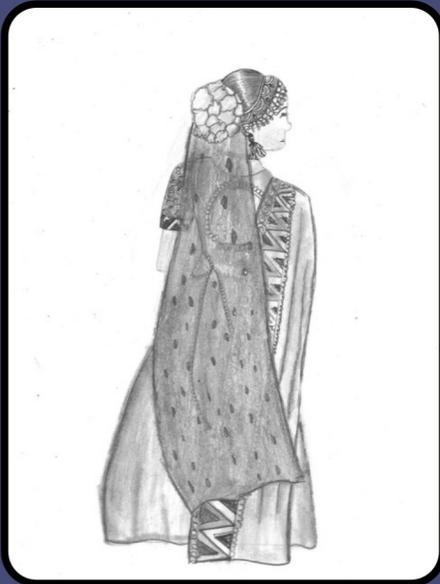
Gargi Chaturvedi 6B



Illustrations



Keerthan Surya Raj-6A

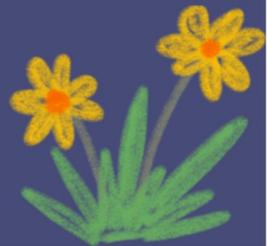
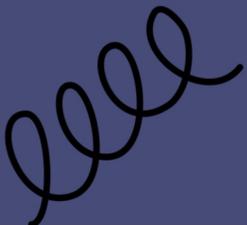


Jeevardhini Baranidharan- 6A

Adwitiya Mondal - 6B



Piyush Acharya- 6C



ACHIEVEMENT



Agastya Bali took part in the 2024 season of FIRST LEGO League, a robotics competition tailored for students aged 8-15 years, hosted in Aachen, Germany, on March 2nd and 3rd. He assumed the role of Team Captain.

Shashwat Srivastava competed in the Winner's Cup Inter Karate Dojo Tournament, held in Bengaluru on February 25, 2024, emerging victorious in the Kate/Kumite category, securing the top position.



Seed Germination

Glow Montessori centre Hosur road, focuses not just on the academic development of the students but also teaches them to be responsible human beings. As part of the experiential learning, the Germination of seeds activity was done for KG1 students with the aim to demonstrate how plants develop from seeds. Children were shown the systematic process of the seeds sprouting experiment in the activity session. In this seed sowing experiment, students witnessed the requirement of plants for the overall growth process.

Furthermore, to have a hands-on experience on 12th of January 2024, the children were encouraged to sow the seeds in an empty coconut shell with the guidance of their teachers. They filled the shells with soil, sowed the seeds, watered it, and placed their coconut shells outside by discussing that plants need soil, water, air and sunlight as well. Children were taken out every morning regularly to water the seeds. The tiny ones also went on a nature walk in the school premises and observed the different types of plants and discussed

the parts of plants.

The nature based activity ended on 25th, by then the seeds had sprouted into tiny sapling . Their happiness was on the peak when they saw a little plant coming out. It was indeed a fun learning, engaging and enriching experience for the little ones.



Explore Money

Our GMC conducted an engaging activity on 27th February at our kindergarten classes focusing on the topic of money. In an effort to introduce our young learners to the concept of currency and the value of goods, we organized a vibrant Fruit and Vegetable Market at our school premises. The event was a culmination of weeks of learning about the importance of money, how it is used, and the basics of commerce. Our little entrepreneurs had the opportunity to set up their own stalls, showcasing an array of colourful fruits and vegetables. From crunchy carrots to juicy apples, the market was bustling with excitement and energy.

Under the guidance of their teachers, the children actively participated in various roles, from sellers to customers. They learned to identify different coins and bills, understand their values, and make simple transactions. This hands-on experience provided them with valuable insights into the real-world application of mathematics and financial literacy. As we in GMC believe in providing holistic learning experiences that extend beyond the confines of textbooks. The Fruit and Vegetable Market was a testament to our commitment to experiential learning and equipping our students with essential skills for their future.



Fun Week

As the school year winds down and vacation approaches, Our GMC has organized for the exciting lineup of fun games and activities for our beloved Kindergarteners in the last week before the vacation from 11th to 27th March 2024. Our little ones will have the opportunity to engage in various games and activities that will not only entertain but also stimulate their young minds. A class party was held on 27th of March, to make the last day of school most memorable. Our Kindergarteners created amazing moments, enjoying the class party, by having their favourite snacks while chatting with their friends. They actively participated in the fun-filled games and danced with their friends to the music. These activities will create lasting memories for our kindergarteners as they bid farewell to another wonderful school year. Their joyous shout and gleeful faces painted a truly enriching and holistic experience. It was an enthralling sight to see the smiles on our little ones' faces as they embark on the week of fun and adventure!

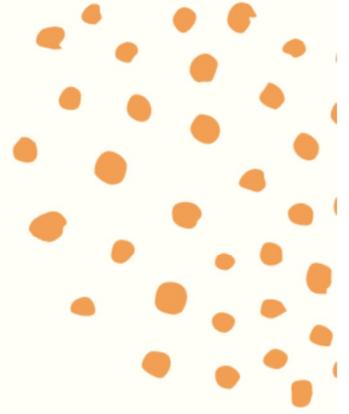


Triversity



The ceremony began with GMC students running through the ground carrying the Torch of Lakshya before presenting it to our esteemed Principal during its inauguration and declared the meet officially open. Our distinguished guest elevated this occasion with her gracious discourse that placed significant emphasis on children's participation in outdoor activities. Subsequent to Nirmala Ma'am's address, wherein she extended her well-wishes to all participants for their utmost performance. A procession ensued consisting not only of all students but also toddlers from GMC who joyously greeted their eagerly anticipated parents with enthusiastic waves.

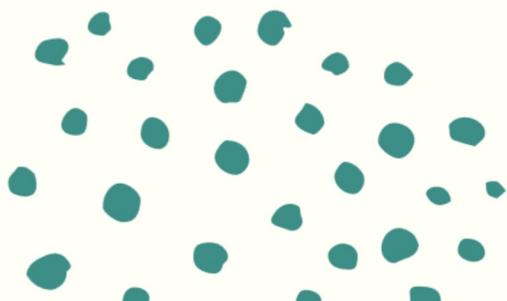
The eagerly awaited annual pre-primary sports day "LAKSHYA-2024" at Glow Montessori Centre was executed with great fervor. This year's sports day theme, "TRIVERSITY," added an extra layer of excitement to the 75th anniversary of Republic Day celebrations. The festivities commenced with the arrival of esteemed guests - Director-Principal Ms. Usha Mahesh Reddy, Vice Principal Ms. Nirmala Mohan, and Mentors Kindergarten and Montessori, Ms. Sajitha Murali and Ms. Anjana Vinod.



Sajitha Ma'am delivered a captivating oration that enveloped onlookers through her eloquent speech. KG2 children showed synchronized heartbeats while dancing to 'Jai Ho' with tricolour pride. KG1 youngsters performed 'Sabse aage honge Hindustani' with unity and pride in being Indian. Montessori students danced to 'Des Rangeela' showcasing India's diverse culture and vibrant colors. Finally, Anjana Ma'am enlightened spectators with her words of wisdom during her speech.



The highly anticipated races took place within respective enclosures where parents provided support and expressed delight at every instance they witnessed their child participating in them overall making it an unforgettable experience for all involved.



One of the most thrilling experiences for parents is when they are granted the privilege to witness their child's Montessori classroom in action. These sessions present a distinctive opportunity for parents to directly observe the dynamic operation of the classroom, including how learning transpires through diverse materials and how children engage in collaborative group work.



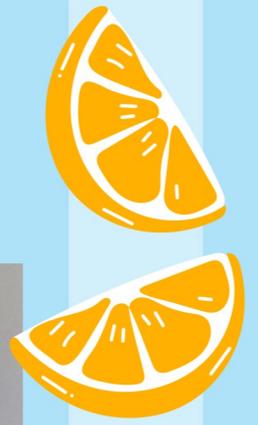
Montessori Seniors Observation

The much-anticipated Senior Parents' observation session was marked by the prompt arrival of parents at 1:45 pm, who observed their children's work and engaged with teachers in discussions about their child's progress for about fifteen minutes. The students were intrigued by the presence of their beloved family members within their learning environment and greeted them warmly with affectionate embraces. The children demonstrated exceptional behavior, leaving parents thoroughly impressed with their work.



Overall, parental enthusiasm appeared boundless as they gained a glimpse into their child's daily regimen within an exceptionally nurturing educational setting.

MONTESSORI CULMINATION OF EPL ACTIVITIES



Making of oRANGE JUICE

The culmination of the Montessori Practical Life curriculum involved Senior students of Montessori demonstrating their proficiency in food preparation, utilizing the skills acquired over three years of experiential learning activities. The month of March saw a diverse range of activities, including crafting fresh orange juice, assembling delectable sandwiches, creating fruit truffles and preparing traditional Bhel puri.



SANDWICH MAKING

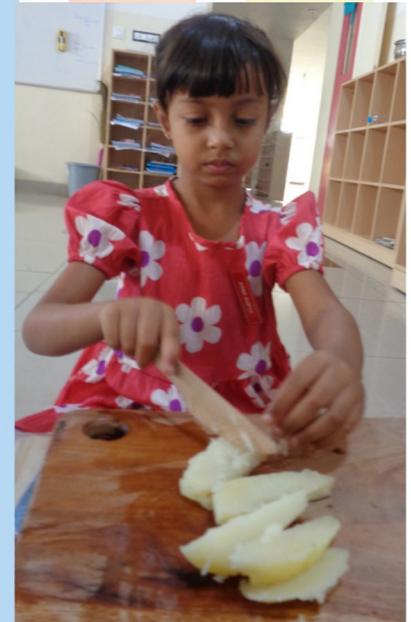


FRUIT TRUFFLE





BHELPURI



The children eagerly engaged in all of these activities by procuring the specified ingredients and bringing them to school they were asked for. They enthusiastically immersed themselves in preparing most of the dishes, expressing their thoughts and sharing insightful stories during the process. The highlight was undoubtedly savoring the delectable cuisine. The Seniors gathered together to enjoy a communal tasting experience, exchanging pleasurable conversation about their unique culinary encounters with peers.

A day spent with the Toddlers

Parents of toddlers were offered an exclusive chance to accompany their little ones for a day at the esteemed Glow Montessori Centre. With enthusiastic anticipation, parents entered the Montessori environment to observe their children's activities firsthand. Complimentary mats were provided so that parents could sit alongside their little ones and witness them perform activities. Later on, during circle time, parents joined in with their young ones in singing familiar tunes. It was a delightful experience for both as the children relished the opportunity to sing along with their beloved parents.



The snack time convened at the dining table to prepare a delectable fruit snack. The young ones were granted an opportunity to blend various fruits together, before the group resumed indulging in their culinary creation. Both parents and children savored every bite of their delicious snacks.



It was time for both parties to conclude the day's activities. The occasion culminated with a rendition of the 'Goodbye Song' and a presentation of stars to parents and children alike. In summary, it proved to be an immensely enjoyable experience for all involved, as the children relished in their parents' company.



MONTESSORI HOLI CELEBRATION



Glow Montessori Centre celebrated Holi with great enthusiasm. Students were educated about the significance of this auspicious occasion. While rejoicing in the festivities is important, safety was equally emphasized. To ensure their well-being, young children were advised to apply organic Holi colors as "tikas" on each other. The celebration concluded on a high note with our students enjoying a fun-filled Holi celebration that set off an atmosphere brimming with festive spirit and energy.





MONTESSORI GRADUATION 2023-24

The convocation ceremony for the Montessori Students of Glow Montessori Centre, Hosur Road, was on March 27th, 2024. This event intended to laud the youthful and zealous learners of Montessori for their exceptional achievements during the period spanning from 2021 to 2024.



The event was graced by the presence of our Managing Trustee Mr. Mahesh Reddy, Kindergarten Mentor Sajitha Murali, Montessori Mentor Anjana and parents, families and our little stars of the day. The celebration began with an invocation song performed by Music teacher Sharada from NPS to invoke blessings from Lord Ganesh. All dignitaries then proceeded to light the lamp before being welcomed.





The pinnacle of the day was the Graduation Ceremony, which commenced with the Montessori's dainty and intelligent tots donning elegant off-white and black attire, occupying the AV room. The event proceeded with class teachers delivering a few enchanting words about each student's transformation. Each student eagerly awaited their turn to view a short video that showcased pictures of their three-year journey in Montessori. Family members who had come to felicitate blessed the children with graduation caps while dignitaries presented them with certificates. Children holding candles stood up for the school song as our Mentor Montessori Ms.Anjana Ma'am declared them graduates, adding charm to an atmosphere filled with a sense of achievement. Sajitha Ma'am and Anjana Ma'am graced the program by sharing their wise words and thanking every hand involved in our children's journey. The National Anthem was played and parents later snapped photos in the 'rocket' photo booth alongside their loved ones.





Dear Students,

As we come to the end of another school year, we want to take a moment to express our gratitude to each and every one of you. It's been a year full of challenges and triumphs, growth and learning, and we couldn't be prouder of all that you've achieved.

As we close our doors for the summer break, we want to encourage you to continue exploring, questioning, and discovering. Take this time to rest, recharge, and pursue your passions. Whether you're traveling, spending time with family, or diving into new hobbies, remember to embrace every moment with curiosity and enthusiasm.

While we may be saying goodbye for now, the memories we've created together will stay with us forever. We look forward to welcoming you back next school year for more adventures, laughter, and learning.

Until then, stay safe, stay curious, and never stop dreaming big...



*SEE YOU
soon!*

NPSHRD