



St. Joseph International School

97 Asad Avenue Mohammadpur, Dhaka - 1207

Dear Students,

We are delighted to announce that SJIS is going to participate in 5th NDC National Math Festival organised by Notre Dame College.

Event Details:

Dates : February 14 (Friday) - February 15 (Saturday), 2025

Venue : Notre Dame College, Dhaka

Categories:

- **Primary (P)** : Grade 3, 4 & 5
- **Junior (J)** : Grade 6, 7 & 8
- **Secondary(S)** : Grade 9, 10 & O Level Examinees
- **Higher Secondary (HS)** : AS Level

Registration fee: Tk. 100/- (One hundred taka only)

- Paying this fee will give you access to participate in all of 23 segments except Treasure hunt. [Treasure Hunt segment fee 450/-, Treasure Hunt Registration is only applicable for the students of Grade 8 to AS Level.]
- In case of team events, the other members of your team should also register individually.
- For submission-based events, no registration is required.

Online registration details:

1. Visit: <https://forms.gle/2E44W6NPBSfyZ82Z9>
2. Fill in your name, email address, mobile number, and other required details in the form.
3. Select the segments in which you wish to participate.
4. Make your payment manually through bKash (*Send Money*).
5. Provide the transaction ID of your payment.
6. You will receive a confirmation email within 7 days.
7. Once your payment is confirmed and you receive the confirmation email, your registration is complete!

Participants who will register in between February 5 will get T-shirt, Certificate & Lunch!

Last date of registration: 5th February, 2025 [Slots are Limited so registration will be closed after completing out slots.]

Solo Events:

1. Math Olympiad (Find Based)
2. Math Olympiad (Proof Based)
3. Math in Motion
4. Calculus Mania
5. CombiConundrum
6. Integration Bee (On Paper) + Duel (Stage)
7. Graph Craft
8. Geometric Framework
9. Crack the Code
10. Human Calculator

11. Speed Math (Online) + Math Counts (Stage Round)

11. IQ Olympiad
13. Sudoku
14. Crossword Puzzle
15. Speed Cubing
16. Extempore Speech

Team Events:

17. Project Display
18. Wall Magazine
19. Scrapbook

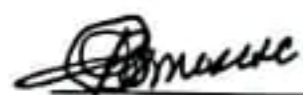
Submission Based Events:

20. Math Article (Online)
21. Math Memes (Online)

Special Events:

22. Workshops
23. Treasure Hunt
24. Other Activities (Math in Action)

Assigned Teachers: 1. Kumaresh K. Pal 2. Promod Majumder
Event schedule and details of the events are attached to this notice.



Principal
St. Joseph International School

Event Registration for the 5th NDC National Math Festival 2025

Calling all equation alchemists and logic wizards! Arm yourselves with protractors, prime your analytical minds, and sharpen your pencils, for a new mathematical adventure awaits—a realm where creativity meets calculation, and every solution unlocks the secrets of the universe!

After a full revolution around the sun, **Notre Dame Math Club** returns, unfolding the grand curtains of our Flagship event, "**5th NDC National Math Festival 2025**".

So, enthusiasts! Let your neurons resonate, and be prepared to delve into a mathematical expedition where every segment is a turn of a Rubik's cube with seemingly endless possibilities. Every problem here is a treasure chest full of beautiful equations hidden with logical twists. This is an exponentially growing explosion of intellectual fireworks, where numbers whisper stories, equations sing symphonies, and algorithms paint masterpieces.

★ **Payment Method:**

Bkash Number: 01616844459

Amount for Send Money: 100 BDT

Reference: NMF_Participant Name_Phone Number

Example: NMF_Mahir Tajwar_01869*****

#For **TREASURE HUNT Segment:**

Bkash Number: 01616844459

Amount for Send Money: 450 BDT (Full Team of 3 Members)

✦ **Segment List:**

■ **Solo Events:**

1. Math Olympiad (Find Based)
2. Math Olympiad (Proof Based)
3. Math in Motion
4. Calculus Mania
5. CombiConundrum
6. Integration Bee (On Paper) + Duel (Stage)
7. GraphCraft
8. Geometric Framework
9. Crack the Code
10. Human Calculator
11. Speed Math (Online) + Math Counts (Stage Round)
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16. Extempore Speech

■ **Team Events:**

17. Project Display
18. Wall Magazine
19. Scrapbook

Segment Description:

■ **Solo Events:**

• **General Clarifications:**

- * Questions will be provided in both English & Bangla.
- * The On Paper segments may contain two sections; Numerical and Proof Based.
- * You must show your rigorous proof on rough sheets. Numerical answers must be given on specific boxes.

- * No Calculators or digital devices are allowed in the exam hall. Cheating or unfair means will lead to immediate expulsion.
- * Other necessary rules and regulations will be revealed in the specific discussion posts of every solo segment.
- * The top 3 performers from each category will be rewarded.

1. **Math Olympiad (Find) ($P + J + S + HS$, 50 mins):**

This is actually a computational Math Olympiad where you will unravel challenging problems and provide only the final answers. This segment is a true test of your problem-solving skills and mathematical knowledge without the need for detailed solutions.

If you are new to this olympiad, follow the BdMO (Bangladesh Mathematical Olympiad) website:

<https://www.matholympiad.org.bd/>

2. **Math Olympiad (Proof) ($P + J + S + HS$, 2 hours):**

You will dive into the world of reasoning by solving intricate Olympiad problems and crafting compelling proofs. This segment will test your problem-solving ability, mathematical reasoning, and critical thinking skills. You will grapple with elegant and intricate mathematical proofs that demand creativity and insight.

3. **Math in Motion ($S + HS$, 50 mins):**

You will assemble to tackle cutting-edge problems rooted in real-world applications! Our carefully crafted question set will draw upon the domain of mathematics in the real world such as mechanics, data analysis, dynamics, and other areas of applied mathematics. You will have an opportunity to demonstrate your mastery of these concepts, display your logical reasoning and innovative thinking. Let knowledge be put in motion!

4. **Calculus Mania (HS , 50 mins):**

"The calculus is the greatest aid we have to the application of physical truth in the broadest sense of the world." - William Fogg Osgood

Therefore, calculus is a crucial tool in fields ranging from physics and engineering to economics and beyond, and its impact on our world is immeasurable. This segment named 'Calculus Mania' is solely dedicated to 'Calculus' where equations dance with imagination and theorems come to life. Here change and motion will take center stage as the participants will delve into the intricacies of limits, derivatives, and integrals.

5. **CombiConundrum ($J + S + HS$, 50 mins):**

"Combinatorics is the domain of the effervescent, the irresistible, and the overpowering, offering the most direct and easiest path to all forms of knowledge." - Paul Halmos

This segment is one of the finest chances to explore the mesmerizing realm of combinatorial mathematics. You will navigate through complex combinatorics problems involving counting techniques, probability theory, pigeonhole principle, graph theory, recursion, and the inclusion-exclusion principle.

6. *Integration Bee (HS, 30 mins + 40 mins):*

Step into the arena of intellect and precision, where the art of integration takes center stage. The Integration Bee is a high-energy, fast-paced contest designed to challenge your mathematical prowess.

Compete against sharp minds, solve intricate integrals, and showcase your mastery of calculus. Whether you're a math enthusiast or a seasoned solver, this is your moment to shine—where every integral brings you closer to glory!

Two rounds will be introduced in this segment. The first one is the On Paper round in which competitors will be provided with mind-storming integration problems to solve on paper. Another ultimate round is the stage round where the top scorer individuals selected from 1st round will be invited to appear in a 1V1 duel that will take place on the open ground.

7. *Graph Craft (S + HS, 1 hour):*

Introducing an exciting event that will put your understanding of algebraic equations and the relationships between their variables to testament. Here, you will bring functions to life by sketching your graphs and pinpointing key features. Conversely, you will also be tasked with the creation of functions based on the provided graphs. This segment will gauge your grasp of functions and your ability to relate between mathematical concepts and their visual form.

8. *Geometric Framework (P+J, 1 hour):*

You will dive into the world of classical geometry, and construct elegant and sophisticated shapes, angles, and figures with nothing more than a compass, straight edge, and your mathematical know-how based on given information about geometrical structures. Diverging from angles and triangles to circles and polygons, from angle bisectors to medians, and from tangents to perpendiculars, this event will test your geometrical construction skills and your precision in constructing geometric figures.

9. *Crack the code (P+J + S + HS, 50 mins):*

An exhilarating mathematical event that will challenge you to decipher codes from given clues and decrypt hidden codes within texts. This innovative mathematical competition features a variety of creative and mind-bending questions, offering an exciting test of analytical and problem-solving skills.

10. *Human Calculator (One Category, 20 mins):*

If a little calculator can calculate, then anyone can too. Therefore, in this event, you will have to put your mental arithmetic skills to the test by solving a series of arithmetic problems without any external aid.

11. *Speed Math & Math Counts (P + J + S + HS, 1 hour + 50 mins):*

It is a dynamic mathematical combat where you will have to compete against the clock to solve a series of mind-blowing mathematical problems. This is an online segment, which means, here, every participant from all around Bangladesh can battle against each other. This segment will be hosted on an official website that will be announced soon.

12. *IQ Olympiad (P + J + S + HS, 50 mins):*

Incredibly intelligent people always seem odd to those who aren't as sharp. However, we are inclined to discover those odd ones. You might be the Euler or Einstein of this century. Here in this event, you will tackle a variety of problems designed to challenge your IQ, including mathematical conundrums. This event is a test of your problem-solving agility and abstract reasoning capabilities.

13. *Sudoku (All, 20 min):*

In this event, you can showcase your logical reasoning skills by solving a Sudoku puzzle - a logic-based number placement game where a 9x9 grid must be filled with numbers from 1-9 without any repeated numbers in each row, column and 3x3 squares.

14. *Crossword Puzzle (P + J , 30 mins):*

This event is a unique fusion of words and numbers where the participants will decipher a crossword puzzle with clues steeped in mathematical concepts and terminology. It is a fun way to test your familiarity with mathematics vocabulary and your problem-solving dexterity.

15. *Speed Cubing (P + J + S + HS)*:

In this era of puzzle-solving, who doesn't know about this strenuous yet fascinating object? It is one of the most famous and intriguing puzzles of all time, having a total of 43 quintillion possible combinations! So, do you want to be that speedcuber who can crack this challenging perplex in the least possible time, even under pressure? Then this event is just for you which is gonna take place on the stage.

16. *Extempore Speech (One Category)*:

Step into the spotlight to blend mathematical reasoning with storytelling! From ancient theorems to modern breakthroughs, this challenge invites you to weave logic and history into a captivating narrative. Think fast, speak with flair, and bring the story of mathematics to life!

■ Team Events:

• General Clarifications:

- * Every team must consist of 3 participants except Scrapbook which will feature 2 participants. Cross-institutional teams are allowed.
- * Team performers must assign their team members before attending any team segments.
- * The top 3 teams from each category will be rewarded.
- * Necessary rules and regulations will be revealed in the specific discussion posts of every team segment.

17. *Project Display (P + J + S + HS)*:

This exciting event is designed to showcase the creative and problem-solving abilities of the students in the fields of Mathematics, Physics, IT and Robotics. Project types comprise of Mathematics, Mechanics, IT & Statistics. Judgment will be based on the overall presentation in any of the segments. No category or segment type is applicable for project display.

18. *Wall Magazine (P + J + S + HS)*:

This event celebrates the power of artistic expression and storytelling through visually striking displays. You guys will have the opportunity to showcase your latent talents in this vibrant and creative platform that bridges the connection between wisdom and demonstration.

Your wall magazine can be based on any topic.

19. *Scrapbook (J + S + HS)*:

You will plunge into an ocean of creativity armed with scissors, glue, and a wealth of inventive ideas along with your imagination. You will intricately weave together unique yet visually arresting scrapbook pages that are not just a reflection of your artistic spirit, but also a window into your creative visions.

Your scrapbook can be based on any topic.

■ Submission Based Events:

• General Clarifications:

- * These are all solo events.
- * Plagiarism will result in immediate disqualification.
- * The top 3 performers from each category will be rewarded.

20. *Article Writing (All, Online)*:

This segment is an opportunity to demonstrate mathematical adroitness through the power of the written words. In this competition, you are invited to craft enthralling and informative math articles on a wide range of topics within the realm of mathematics. This competition is designed to celebrate the talent of students who are passionate about mathematics and gifted with the ability to articulate complex concepts with clarity and precision.

Rules and Regulations:

- The writings must be related to mathematics.
- The maximum word limit is 400.

- It must include graphics, figures, and visual explanations.
- It should be submitted to a specific Facebook group that will be disclosed soon.
- Further information will be provided hereby.

21. **Math Memes (One Category):**

You will create and share math-themed memes that add a dose of laughter to even the most complex equations. From clever puns to relatable math struggles, this event celebrates the lighter side of numbers, all while fostering a sense of community among math enthusiasts.

Rules and Regulations:

- Memes can be in the form of images, GIFs, or videos and should be in a common format (JPEG or PNG for images and GIF or MP4 for videos).
- You have to submit your memes to the NDMC Public group that will be disclosed soon.
- Memes should be humorous but respectful. Submitting offensive, discriminatory, and inappropriate content will result in disqualification.
- One can submit as many memes as they want.
- The judgment will be made based on Facebook reaction, comments, and sharing of those posts as well as the judges' decisions.
- You cannot post the memes on other platforms till the end of the festival. But you can share the original post anywhere.

■ **Special Events:**

22. **Workshops (P + J + S + HS, 3 hours):**

Workshops are one of the most practical ways of enriching our knowledge, where any unique demonstration of any topic can illustrate our mind-field collectively. NDMC has been organizing a handful of workshops, related to mathematics, on several spellbinding topics to clinch the thirst of math philonists. NDMC will organize math workshops this year for enthusiasts, featuring prominent Bangladeshi mathematicians and IMO medallists.

23. **Treasure Hunt (One Category, 2 hours):**

You along with your mighty teammates will navigate through a captivating labyrinth of mathematical challenges, each leading you closer to the ultimate mathematical treasure. This event combines problem-solving, teamwork, and strategic thinking as teams decode clues, solve equations, and unravel the mysteries concealed within the mathematical landscape.

(All the details along with the registration link will be revealed soon.)

24. **Other Activities (Math in Action):**

Step out of the classroom and into the great outdoors! Designed for juniors, this interactive session on the field ground combines hands-on activities, problem-solving challenges, and real-world applications of mathematics. From measuring distances to exploring geometric patterns in nature, FieldWorks turns the field into a living lab of discovery and fun. Get ready to learn, play, and experience math like never before!

✦ **Necessary Contact Information:**

1) Shahriar Sabit Sarthok
General Secretary
Contact No: 01522-109574
Facebook ID Link- <https://www.facebook.com/shahriar.sabit.sarthok/>

2) Mahir Tajwar
President, Administration
Contact No: 01869-755522
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3) Alif Ibn Akhtar
Vice President, Administration
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Facebook ID Link- <https://www.facebook.com/alif.ia.2006/>

Be ready to experience the ultimate thrill of weaving the wonder of numbers and equations with the "5th NDC National Math Festival 2025".