DELHI PUBLIC SCHOOL- GBN

PRESENTS

MATH FEST

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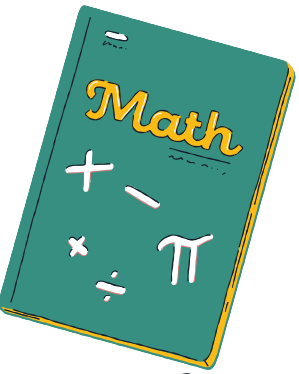

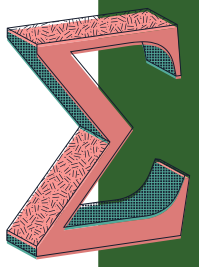

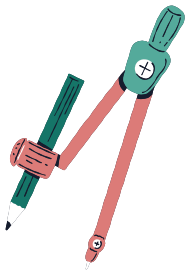

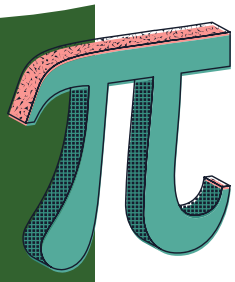

An Interschool Competition based on Mathematics

July 22, 2025

Dear School Leader,

With immense pleasure and privilege, Delhi Public School-GBN invites the multi-skilled and adept students of your Institution to participate in the Third edition of "MATHFEST", the Annual Fiesta of Mathematics- based Interschool competitions.

The event is organized to provide a platform to showcase the latent abilities and potential of the students to demonstrate their inherent talents.

The event will unlock the doors of their imagination and creativity and help them become more confident in the subject.

1. The event will be held on July 22.
2. The event will be conducted within the school hours i.e., 8:00 am to 2:00 pm.
3. Winners will be awarded at the closing ceremony on the same day.
4. All the necessary details have been enclosed along with the rules and regulations.
5. Certificates of participation would be given to all the participants.

We look forward to an enthusiastic and wholehearted participation of your esteemed school. The details of the competitions are enclosed for your perusal.

DETAILS OF THE EVENT

- All the Competitions are based on Mathematical concepts
- Each domain includes several activities under two groups:
  Group-1: Classes VI- VIII
  Group-2: Classes IX- XII
- Registration for all the activities is free of cost.
- Registration will be on first-come, first-served basis.
- Students can choose any one activity they want to be a part of according to their class groups.
- All the students must carry their school identity cards to the venue.
- All the competitions will be held offline at DPS- GBN Sector- 132 campus.
- The participation of the students in any activity is restricted to just one student per class. Mathematics Modelling Challenge would be an exception in this case, as two students per class can participate in this activity.
- Information provided in the registration form must be correct in all respects.
- Any inappropriate behavior or offensive comments that could harm the interests of other participants or make them feel uncomfortable are prohibited.
- Students must submit the original work. Plagiarism is not allowed.

DETAILS OF THE EVENT

- Breach of any of the rules will result in disqualification from the competition.
- The School with the highest points will be awarded the Rolling Trophy.
- Host School will compete, but will not stake a claim to the Rolling Trophy.
- The recipient of the Rolling Trophy is requested to return it to host school after a duration of 11 months of winning it.
- Respective event in-charges can be contacted for any queries regarding the submission of entries between 4 pm-6 pm, from Monday to Friday.
- The decision of the judges will be final and binding.
- The event will commence at 8:30 am. Teams need to report at the registration desk before 8: 00 am.
- Registration form must be submitted to the host school by 10 July, 2025 only via the online link provided.

REGISTRATION LINK

https://forms.gle/EDduWvQAc6X3Ncxi7

EVENTS OF THE DAY

SR. NO.	EVENT	GROUP/CLASSES
1	RANG-TARANG	GROUP 1 CLASSES VI-VIII
2	MATH- VOGUE	GROUP I CLASSES VI-VIII
3	BRAIN-TRAIN	GROUP II CLASSES IX-XII
4	$\int_{dance}^{infinity}$ DANCE TO INFINITY	GROUP I AND II COMBINED CLASSES -VI- XII
5	MATHEMATICS MODELLING CHALLENGE-2023	GROUP I CLASSES VI-VIII GROUP II CLASSES IX-XII
6	Canvas of Curves	GROUP II CLASSES IX-XII

RANG- TARANG

RANGOLI MAKING

GROUP I - CLASSES VI-VIII

THEME: Mathematical Rangoli

NUMBER OF PARTICIPANTS: 02 per school

CONCEPT: Rangoli patterns are a creative way to discover symmetry, reflection and tessellation. Students will create Rangoli using Mathematical concepts/ figures/ symbols etc.

Rules:

- **The Rangoli must be based strictly on the theme "Mathematics".**
- **Participants must bring their own materials.**
- **Permanent colours or markers are strictly prohibited.**
- **Only eco-friendly materials such as Powdered or sand-based colours, Flowers, leaves, grass, stems/twigs, Grains, lentils, sand, etc. may be used.**

Time Limit:

- **2 hours will be provided to complete the Rangoli.**
- **No extra time will be allotted under any circumstances.**

Size Restriction:

- **The Rangoli must not exceed 3 feet x 3 feet in dimension.**

RANG- TARANG

RANGOLI MAKING

GROUP I - CLASSES VI-VIII

Creation Rules:

- **Rangoli must be completely handmade. Use of tools like stencils is prohibited. Only thread, rope, cord, or a ruler may be used for precision.**

Prohibited Items:

- **No electronics, hand notes, or reference materials are allowed during the competition.**

JUDGEMENT CRITERIA

Parametres	Points
Design/Theme (STRICTLY BASED ON MATHEMATICS)	05
Concept, thought, topic or idea	05
Detailed description of the Mathematical concept used in Rangoli	05
Presentation, Overall appearance and appeal, arrangement, symmetry, color combination, neatness, perfection, quality, details, clarity, artisanship, creativity and uniqueness	10

Disclaimer:

Judge's decision will be final, and no correspondence will be entertained with regard to the final results.

Please note: The photographs of the rangoli patterns students make may be posted on the school website and other social media platforms related to DPS- GBN.

For event related queries, feel free to contact between 4:00 – 6:00 pm, Monday to Friday:

Ms.Neetu Singh: +91- 8750- 360- 104
Ms. Sonal Sharma: +91- 90121- 00- 205

MATH VOGUE

FASHION SHOW

GROUP I- CLASSES: VI-VIII

THEME: Math- In- fashion

NUMBER OF PARTICIPANTS: 01 designer participant, accompanied by a model student.
NUMBER OF OUTFITS: 01

CONCEPT: Attire based on the theme is to be worn and presented with a speech that describes the outfit.

TIME LIMIT: 1-2 minutes

- **The outfits should be innovative in design based on the concept of "Math- in- Fashion"**
- **Students may wear the attire as their outfit and bring their school uniform also to avoid any wardrobe malfunction.**
- **Participants will showcase their Mathematical theme based self- designed outfit on the stage and will explain that in 1-2 mins.**
- **The outfits will be exhibited after the fashion show.**

JUDGEMENT CRITERIA

Parameters	Points
Wearability of the attire	05
Craftsmanship	05
Theme based	05
Confidence	05
Presentation	05

Disclaimer:

Our Judge's decision will be final, and no correspondence will be entertained with regard to the final results.

Please note: Your item's photographs may be posted on the school website and other social media platforms related to DPS-GBN.

For event related queries, feel free to contact between 4:00 – 6:00 pm, Monday to Friday:

Ms. Divya Rathee: +91- 9990- 846-158

Ms. Varsha Sharma: +91- 9971- 955-228

BRAIN TRAIN

An Interschool Quiz Contest

GROUP II: CLASSES IX-XII

SYLLABUS: Mathematics- based concepts from basics- class XII.

NUMBER OF PARTICIPANTS: 02 per school, both the participants must be from different classes.

CONCEPT: All participating schools will commence with a multiple-choice preliminary round, conducted on the same day at the venue. This round will comprise 50 questions, to be completed within 40 minutes. Only the top six schools will earn their place in the thrilling final showdown!

The final round consists of 4 different rounds which are as follows:

Round 1- Math Wizardry

Round 2- Rapid Fire

Round 3- Audio Visual

Round 4- Buzzer-O-Buzzer

BRAIN TRAIN

ROUND 1- Math Wizardry

CONCEPT:-

All the tricks in this feature seem magical, but it's Mathematics that makes them work. Figure out the Math behind the tricks.

Rules:

- **Teams are to choose one out of four topics given by the quiz master. The questions pertaining to the selected topic will be asked.**
- **Each question will be followed by 4 options.**
- **Each team will have three chances to answer the question and each time a new question related to the same topic will be asked.**
- **Answering correctly in the first attempt gives you 20 points.**
- **Answering correctly in the second attempt gives you 10 points.**
- **Answering correctly in third attempt gives you 5 points.**

BRAIN TRAIN

ROUND 2- Rapid Fire

Concept:

The team with the lowest points in Round I will be given the first chance in this round. A series of seven quick questions will be fired at each team.

Rules:

- **Seven questions per team.**
- **No negative points.**
- **Each correct answer carries 5 points.**
- **20 bonus points for giving all seven correct answers within the given 50 seconds.**
- **In case, a team passes any question from the seven intended, for any reason, the same question will be asked at the conclusion, if time permits.**

BRAIN TRAIN

ROUND 3- Audio Visual

Rules:

- **There are four audio visual questions in this round.**
- **All the four questions in this round are on the buzzer.**
  Once a team hits the buzzer, it qualifies as the principal team to answer the question.
- **Principal team gets 20 points for the correct answer and -10 for the incorrect answer.**
- **The two other teams can challenge the principal team.**
- **Challenger team gets 10 points for the correct answer and -5 for the incorrect one.**

BRAIN TRAIN

ROUND 4- Buzzer- O- Buzzer

Rules:

6 questions will be asked in this round and the team which hits the buzzer first, will answer the question. For each correct answer, the team will be awarded with 20 points and in case the answer is incorrect, the team will have to suffer the loss of 10 points.

For event related queries, feel free to contact between 4:00 – 6:00 pm, Monday to Friday:

Ms Priyanka Sharma: +91- 8826- 569- 118

Mr Mayank Kulshreshtha: +91- 9971- 345-469

$$\int_{dance}^{infinity}$$

DANCE TO INFINITY

GROUPS I & II FUSED

CLASSES: VI- XII

NUMBER OF PARTICIPANTS: A maximum of 12 and a minimum of 8 participants.

THEME: Mathematical dance including shapes, patterns, angles, geometry, symmetry etc.

Mathematics

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ALLOTTED TIME: Not more than 3 mins.

RULES:

- **Participants need to select costumes and props that compliment the style and theme of their performance.**
- **Participants should be modestly dressed.**
- **Any kind of dangerous stunts must be avoided.**
- **Music for the dance to be mailed at mathfest@dps-gbn.org by July 16, in MP3 format with the mention of the full name of the school and event name in the subject line.**
- **Kindly bring your music in a pen drive also.**
- **Exceeding the time limit will lead to disqualification.**

JUDGEMENT CRITERIA

Parameters	Points
Theme	05
Choreography	05
Synchronization	05
Costume	05
Overall Presentation	05

Disclaimer:

Our Judge's decision will be final, and no correspondence will be entertained with regard to the final results.

Please note: The photographs of the performances of the participants may be posted on the school website and other social media platforms related to DPS- GBN.

For event related queries, feel free to contact between 4:00 – 6:00 pm, Monday to Friday:

Ms. Preety Malhotra: +91- 8860- 946- 998
Ms Mahalakshmi B: +91- 8742- 966-177

Mathematics Modelling Challenge- 2025

There will be one model from each category i.e., two models (working/non working) from each school will be considered.
(P.S: Schools have the option of participating in any of the categories. Participation in both the categories is not mandatory)

Categories are as follows:
CLASSES VI-VIII
CLASSES IX-XII
NUMBER OF PARTICIPANTS PER MODEL: 02

Mathematics

------- @DPS- GBN -------

Points to be noted:

- **One model per category from each school.**
- **Each model to be presented by two participants.**
- **Best 3 models from each category will be awarded first, second and third position respectively.**
- **Item or material used to create the model should be purchased/ designed by the students themselves.**
- **Use of Biodegradable/ Recycled products in the model will be greatly appreciated.**
- **Participants will be given 3-5 minutes for an oral presentation and demonstration of their model.**
- **Participants will have to bring their own material e.g., laptops, tapes, scissors. chart etc. to display their model**

Mathematics Modelling Challenge- 2025

Please note:

- **Models will be evaluated by the judges on the parameters of originality, creativity, adaptability, practicality,educational significance, appearance and cost effectiveness.**
- **DPS- GBN will display the models to the students and parents.**
- **The models will be handed over to the respective schools the same day.**

BRIEF WRITE- UP

A brief write-up must be submitted along with the model which must contain the pointers mentioned below:

1. **Name of the participants**
2. **Name and address of the school**
3. **Type of model: working/ non-working/ audio- video based**
4. **Title of the model**
5. **Topic / theme**

Mathematics Modelling Challenge- 2025

BRIEF WRITE- UP (continued)

6. **Class**
7. **Instructional objectives to be achieved**
8. **Material used in the preparation of the model**
9. **Procedure of creating the model**
10. **Time taken to prepare the model**

11. **Cost involved**
12. **Use of the model in actual classroom setting**
13. **Benefits of the model to the students and teachers**

JUDGEMENT CRITERIA

Parameters	Points
Originality and creativity	05
Adaptability- easy to make, cost effective, time efficient and accessibility of the of material used	05
User friendly and class room ready	05
<u>Educational Significance/ Instructional Appropriateness:-</u> The model prepared is appropriate, encompasses the significance of understanding of the topic of which the model has been prepared,matches the grade level of the target audience and supports their learning and facilitates achievement of learning objective	05
Presentation and Demonstration of the Model	05

Disclaimer:

Our Judges' decision will be final, and no correspondence will be entertained with regard to the final results.

Please note: The photographs of the models students prepare may be posted on school website and other social media platforms related to DPS- GBN.

For event related queries, feel free to contact between 4:00 – 6:00 pm, Monday to Friday:

Ms Priyanka Sharma: +91- 8826- 569- 118

Ms Rachna Saxena: +91- 9810- 385- 206

Canvas of Curves

GROUP II - CLASSES IX- XII

NUMBER OF PARTICIPANTS: 01

THEME: Patterns of Nature: Mathematics in Art

ALLOTTED TIME: 1.5 hours

CONCEPT:

Unleash the artist within and explore the beauty of mathematics through art!

Participants are invited to create a visual masterpiece inspired by any of the following concepts that elegantly appear in both nature and design:

1. **Fibonacci Sequence**
2. **Golden Ratio**
3. **Fractals**
4. **Symmetry (Reflectional, Rotational, or Translational)**

In just 1.5 hours, students will blend mathematical precision with artistic creativity, demonstrating how mathematics forms the underlying structure of beauty in the natural world.

Canvas of Curves

🎨 **Theme Focus:**

Each participant will create an artwork based on one of the four given concepts. The specific concept will be assigned to them at the venue.

Participants are required to demonstrate artwork characterized by shapes, symmetry, sequences, and spatial patterns, reflecting the underlying beauty of mathematical concepts.

📄 **Paper Format:**

All artwork must be created on an A3 size pastel white sheet. (Sheets will be provided by the host school.)

🖍️ **Materials:**

- **Participants must bring their own colours (crayons, coloured pencils, sketch pens, etc.), stationery (pencil, eraser, ruler), and apron.**
- **Use of scissors, blades, or sharp objects is strictly prohibited.**
- **Use of readymade or pre-decorated items is not allowed. (All artwork must be hand-drawn.)**

🧾 **Identification:**

Participants must mention their Name, Class, and School Code on the back of the sheet. (School Codes will be provided at the venue.)

JUDGEMENT CRITERIA

Parametres	Points
Mathematical Relevance (Effective use of at least four mathematical concepts.)	10
Creativity & Originality – Inventive interpretation and imaginative execution.	05
Aesthetic Appeal – Visual harmony, color, and presentation.	05
Concept Clarity – How clearly the mathematical ideas are expressed and recognizable.	05

Disclaimer:

Judge's decision will be final, and no correspondence will be entertained with regard to the final results.

Please note: Paintings may be posted on the school website and other social media platforms related to DPS- GBN.

For event related queries, feel free to contact between 4:00 – 6:00 pm, Monday to Friday:

Teachers In-charge :
Ms.Preety Malhotra : +91-8860-946-998
Ms. Priyanka Wadhwa : +91- 9911- 097-047

WE LOOK FORWARD TO YOUR PARTICIPATION

Mathematics

@DPS- GBN

Registration form

https://forms.gle/EDduWvQAc6X3Ncxi7