



#Legacyof5Decades

# MATH GENIUS

## MATHEMATICS CHALLENGE 2022



**DALIMSS SUNBEAM  
GROUP OF SCHOOLS & HOSTEL**

Group of Educational Institutions  
Dr. Amrit Lal Ishrat Memorial Sunbeam School & Hostel  
VARANASI

**CRISP, CREATE AND CRACK!**



## INVITATION

Respected Sir/ Ma'am,

Greetings from **DALI/MSS Sunbeam School Sagra, Varanasi!**

The management, the teachers and the students of **DALI/MSS Sunbeam School Varanasi** are honoured to announce an inter-school event '**MATHEGENIUS-2022**' which is going to be held on **26th November 2022** in our school campus.

An event of this nature enhances the holistic development of analytical and analysis of any given situation by the student as well as exploring their leadership skills. Such a forum is a ground for similar minds to interact, share and discuss the latest happenings in the field of mathematics. Let us all come together to celebrate and rejoice **Mathegenius 2022** and learn from each other to survive, compete and adopt the real world.

You are cordially invited to participate in this enthralling event which aims to foster mathematical and intellectual insight.

It would be highly appreciated if you could confirm your school's **participation by 15th November 2022, Tuesday.**

Kindly find an enclosed detailed schedule of the various events from brochure for your perusal.

Looking forward to your school's participation.

Sincerely Yours,

Dr. Tulika Saxena  
Principal, Sagra

**Note- For any clarification regarding the event contact:**

- |                           |                 |
|---------------------------|-----------------|
| 1. Ms. Ankita Gwal        | +91 82993 97962 |
| 2. Ms. Amrita Chakroborty | +91 99350 52222 |
| 3. Mr. Alok Rai           | +91 90580 12559 |
| 4. Mr. J.N. Bhagat –      | +91 96164 87468 |



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**PRADEEP 'BABA' MADHOK**  
PRESIDENT



**POOJA MADHOK**  
DIRECTOR



**MAAHIR MADHOK**  
ADDITIONAL DIRECTOR



**ALISHA MADHOK WALIA**  
ADDITIONAL DIRECTOR

## | Message from President | Director | Additional director |

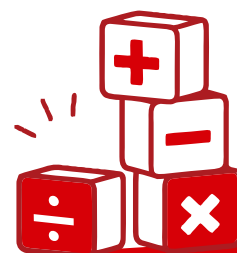
Duty, Devotion and Discipline is the motive of DALIMSS, it has been working for more than five decades with the intention of increasing the Students' logical skill, competitive spirit and identifying the best in the pupils.

"Anything is possible once you believe you are worthy of achieving it", with this thought DALIMSS SIGRA has launched an Inter School Mathematics Talent Program, the MATHEGENIUS for Junior & Senior wing. The program has been organized on 26<sup>th</sup> of November for upskilling the students in various fields that will aid them in their upcoming life.

We are living in an era where digital system has become an integral part of our daily life. Beyond the imagination, calculation and analysis one can't comprehend the concepts in Engineering sciences, Physics, Computer Sciences, A. I. Management Sciences and Social Sciences.

We have faculty members who are actively working in broad range of areas in pure applied and computational mathematical skills with high standards of research. The department is a vibrant place for mathematical research, collaboration and connected across the globe. We arrange a healthy number of seminars, schools, conferences and workshops around the year. DALIMSS Sigra family is extremely enthusiastic to contribute for the overall progress of the taught so that they would be concrete foundation for our nation tomorrow.

ALL THE BEST!!





## Message from Principal's desk

Dear children, Parents and well-wishers,

**“Develop a passion for learning. If you do, you will never cease to grow”.**

Each day brings new challenges and new benchmarks for us. It is imperative to overcome these challenges and to propel ourselves towards our goal

I, as Principal feel privileged to lead this flourishing institution, with an interminable support of our ardent students, committed teachers, compassionate parents and highly acclaimed management. Firmly believing in our school's motto, 'Duty, Devotion and Discipline', we incessantly chisel our students' caliber and encourage them to appreciate our diverse community and to care for others by becoming global citizens, and develop a concern and active respect for the environment.

As this year India is celebrating its 75<sup>th</sup> Independence Year i.e. 'Azaadi Ka Amrit Mahotsava'. We at DALMSS SUNBEAM SCHOOL Sigra family also contributed our celebration via various activities. The activities were not only for the holistic development of the children but to imbibe the sensitivity regarding freedom and patriotism in them.

We aim to nurture our students in such a way that they are well equipped to face the relentless, competitive society without losing their spirit of humanity and altruism.

**“Freedom is never given; it is won”.**



Dr. Tulika Saxena  
[Principal]  
DALMSS SUNBEAM SCHOOL  
SIGRA, VARANASI

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## ABOUT MATHEGENIUS 2022

The Central Board of Secondary Education is a visionary organization established by eminent academicians, scientists and artists; leaders in the various fields of art and education. Educational Council strives to prepare students to face new challenges of the evolving world scenario and develop in them a positive, confident and constructive approach. It has programmes and competitions designed to inspire and encourage students in various disciplines and streams of education like science, social science, mathematics, computer and language at national or international level every year.

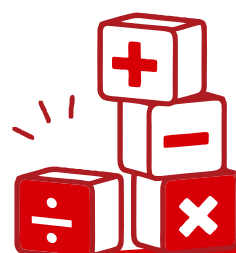
*Mathegenius'22* is one of the conscientious venture of the the CBSE in the field of mathematics. Our objective is to identify and promote mathegenius in the city The entire world recognizes and accepts the ocean of talent in our country. Our children are endowed with immense ability and intellect. We, as elders have a duty to encourage and develop their skills.

*Mathegenius'22* is a competitive examination conducted every year for the students of classes VI to XII. The test is designed to evaluate conceptual knowledge, basic understanding and logical interpretation ability of students.

This year *Mathegenius'22* is organized in two categories for class–VI to XII.

First category is **GENIUS PRE** for class VI to VIII and the events are **Sudoku, Jingle, Spirography**.

Second category is **GENIUS PLUS** for class IX to XII and the events are **Maths 3D Model, Maths Quiz, Maths Relay**.





## EVENTS

### GENIUS PRE

1. MATHS JINGLE
2. SUDOKU – MENTAL MATHS
3. SPIROGRAPHY  
[MATHEMATICAL DRAWING]

### GENIUS PLUS

1. MATHS RELAY
2. MATHS QUIZ
3. MATHS 3D MODEL

## EVENTS CHART

S.No	Event	Class	Teacher Incharge	Contact No.
1.	MATHS JINGLE	VI	MS. REENA CHAWLA	75700 84000
2.	MATHS SUDOKU	VII	MR. ALOK RAI	90580 12559
3.	SPIROGRAPHY	VIII	MR. PIYUSH PANT	93358 39613
4.	MATHS RELAY	IX-XII	MR. SANJAY SINGH MS. AMRITA CHAKRAVARTY	91981 28438 99350 52222
5.	MATHS QUIZ	X-XI	MR. J.N BHAGAT	96164 87468
6.	MATHS 3D MODEL	XI-XII	MR. PIYUSH PANT MR. SHASHANK PANDEY	93358 39613 88005 30238

## EVENTS ORGANIZERS

1. MR. PIYUSH PANT [EVENT HEAD]
2. MR. J.N. BHAGAT [EVENT COORDINATOR]
3. MS. ANKITA GWAL [ACTIVITY INCHARGE]
4. MR. SANJAY SINGH [HOD of MATHS]
5. MR. SHASHANK PANDEY [SR. COORDINATOR]

### MATHS DEPARTMENT

1. AMRITA CHAKRAVARTY
2. ALOK RAI
3. J.N. BHAGAT [EVENT COORDINATOR]
4. PIYUSH PANT

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## **GUIDELINES FOR MATHEGENIUS 2022**

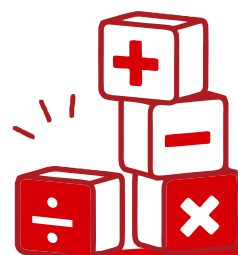
1. Last date of registration is 18th November'2022.  
[Online/Offline]
2. All Candidates are expected to report on time for smooth functioning of the event.
3. Wearing the Mathegenius 2022 ID card [which shall be provided upon registration on the day of event] is mandatory for all participants, failure to do so will lead to disqualification.
4. In order to maintain transparency and fair play in events, all participants are requested to be dressed in their respective school uniform.
5. Any obscenity, vulgarity, misbehaviour or slang language will not be tolerated and will lead to deduction of points.
6. Cheating, plagiarism or use of unfair means will lead to straight disqualification.
7. The decision of organising committee and the judges on all the matters shall be final and binding.
8. Any changes in the event schedule will be imitated atleast 24 hours prior to the event.
9. No registration shall be entertained on the day of event.
10. For any queries kindly reach out the organizing committee.



**Or**

**FOR REGISTRATION  
GO TO THIS WEBSITE**

[https://docs.google.com/forms/d/e/1FAIpQLSfYckO6CmOsX\\_3g1GieFxqZnzfiAdq8N3PjYMdkS4c1EYmR5w/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfYckO6CmOsX_3g1GieFxqZnzfiAdq8N3PjYMdkS4c1EYmR5w/viewform?usp=sf_link)





## MATHS JINGLE

*"Pure mathematics is, in its way, the poetry of logical ideas."*

**Class – VI**

**Teams per School – 1**

**Participants per team – 1**

**Last Date of Registration – 15<sup>th</sup> November 2022**

**Mode – Offline/Online**

**Submission date of video – 21.11.2022 before 12 noon**

**About the Activity –** Mathematics also plays a pivotal role in musical harmony. Essentially, harmony is the combination of musical sounds as perceived by the ear and is analyzed in terms of math based concepts such as frequency, pitch, and chord progression. Mathematics is also deeply interwoven with the western notion of musical scale.

### **GENERAL RULES -**

1. Students should be in proper school uniform.
2. Video duration will be 2 min 30 sec.
3. Orientation of the video should be landscape mode.
4. Video is required to be sent on email which is mentioned on the given form.
5. Best video will be selected on the basis of judgment given by respective judges. Changes will not be accepted.

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# SUDOKU

*"If age is just a number, then life is a SUDOKU"*

Class – VI

Teams per School – 1

Participants per team – 1

Last Date of Registration – 15<sup>th</sup> November 2022

Mode – Offline

1. There will be three rounds [ Easy round , average round and difficult round]
2. Time for different rounds are follows:-
  - i. Easy round– 10 minutes  
[Only top seven contestants can proceed to round 2]
  - ii. Average Round– 15 minutes  
[Only top 5 contestants can proceed to round 3]
  - iii. Difficult rounds– 20 minutes  
[Only the top 3 shall be declared as winners]
3. No over writing will be allowed.
4. Only blue ball pen is allowed.
5. The Sudoku grid will be provided by Dalimss Sunbeam.
6. Winner will be determined through the time utilised while solving the Sudoku puzzle. Any contestant who has taken least time in the puzzle will be declared winner.
7. The decision of the judges will be official and final.



# SPIROGRAPHY

*"Go down deep enough into anything and you will find mathematics."*

Class – VIII

Teams per School – 1

Participants per team – 1

Last Date of Registration – 15<sup>th</sup> November 2022

Mode – Offline

Spirograph consists of a circle moving around inside another circle. This means its motion can be predicted, and the line you get will, or may, depend on a few factors:

- The distance from the center of the cog to the pen hole.
- The relative size of the big hole and the cog.

## RULES AND REGULATION

1. Participant will bring their own Spirography kit.
2. Spirography image should have rotational symmetry.
3. Participant should not use toxic materials.
4. Spirography image should be neat and clean.
5. In Spirography image any line you draw with a Spirograph will eventually join back onto itself.
6. Participants will design at least six images with different colour.

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## **3D MATHS MODEL MAKING**

*"Mathematics is, in its way, the poetry of logical ideas."*

**Class** - IX to XII

**Theme** - 'NEW ERA OF MATHEMATICS'

**Teams per School** - 2

**Participants per team** - 1

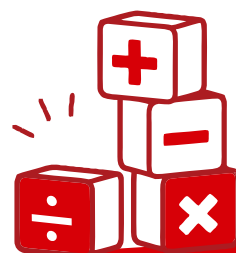
**Last Date of Registration** - 15<sup>th</sup> November 2022

**Mode** - Offline

3D shapes are shapes with three dimensions, such as width, height and depth. An example of a 3D shape is a prism or a sphere. 3D shapes are multidimensional and can be physically held. 3D shape model is the visual property that has sufficient complexity to guarantee accurate identification of objects.

### **RULES AND REGULATION**

1. Materials used in Model should be eco-friendly.
2. Only one model will be considered.
3. Model can exhibit mathematical concepts pertaining to the theme
4. Top 3 models will be awarded.







## MATHS QUIZ

*"Life is a math equation. you have to know how to convert negatives into positives."*

**Class – IX & X**

**No of Participants - 2**

**Last Date of Registration – 15<sup>th</sup> November 2022**

**Mode – Offline**

### **About the Activity-**

Maths quiz is a brief assessment used in education to measure growth in knowledge, abilities, and skills. It helps to enhance the interest in the students towards the subject and also creates a conducive environment to work in groups outside the classroom.

### **GENERAL RULES-**

1. There are two rounds [Elimination Round & Stage Round]
2. The elimination round is based on 10 MCQ's [subject related] with time limit of 15 minutes. Its mandatory for all participants.
3. In the elimination round each question carries 2 Marks, there is no negative marking.
4. Replacement of any participant of a team is not allowed after registration.
5. Only first 5 schools teams would be selected for STAGE ROUNDS.
6. In stage round there are Buzzer & Rapid Fire round.
7. In case of tie between 2 or more teams, for the fourth position, further 3 questions would be asked for final selection.
8. The final quiz rules will be declared on the spot.

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## MATH RELAY

*"The only way to learn mathematics is to do mathematics."*

No. of participants – 3

Registration Date – 15th November 2022

Mode of Activity- Offline

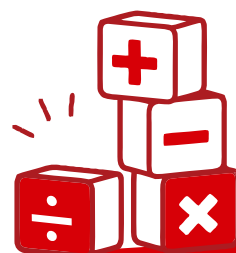
Grade – XI & XII

### About the Activity-

All the teams will be given maths problems to solve. Problems are given to teams one at a time [so initially they have only one problem]. Once a team solves the problem. They are given the next problem.

### Rules and Regulations: -

1. Students' will be arranged in order of their class level in a room.
2. When the facilitator says "On your marks get set Go" students will walk quickly to the opposite of the room.
3. Once reaching the opposite side, the students has to complete a given problem.
4. Once giving a solution, the student goes back in line.
5. If the solution is found *WRONG*, that particular team will be eliminated at the same time.
5. The next student will move ahead and solve the problem until time is up.
6. The team which has most correct answer with least time will be the winner.
7. If there is any modification then the team will be informed on priority.





## PROGRAM SEQUENCE MATHEGENIUS 2022

1. Welcome of Dignitaries and Escorting the guests by MOC.
2. Introduction of Ceremony by MOC.
3. Lamp lighting.
4. Welcome song.
5. Felicitation Ceremony.
6. Welcome dance.
7. Golden words by Honorable President of Dalimss.
8. Inauguration of Events
9. Message by Honorable Director of Dalimss.
10. Final Round of Maths Jingle
11. Final Round of Maths Quiz
12. Award Ceremony.
13. Vote of Thanks by Principal of Dalimss, Siga.



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## REGISTRATION FORM

SCHOOL NAME \_\_\_\_\_

VENUE: DALIMSS SUNBEAM, SIGRA

### GRADE 1: Class VI To VIII

S.No	PARTICIPANT NAME	FATHER'S NAME	CLASS/SEC	EVENT	CONTACT NO. of Participants
1			VI	MATHS JINGLE	
2			VII	SUDOKU	
3			VIII	SPIROGRAPHY	

### GRADE 2: Class IX To XII

S.No	PARTICIPANT NAME	FATHER'S NAME	CLASS/SEC	EVENT	CONTACT NO. of Participants
1				MATHS QUIZ	
2					
1				MATHS RELAY	
2					
3					
1				MATHS MODEL NAME	
2					

EVENT COORDINATOR NAME  
& CONTACT DETAILS

PRINCIPAL

