Dear Student,

Greetings from DPS Greater Noida!

To identify and encourage students who have the capacity for original and creative thinking, willingness to attempt unfamiliar and non-routine problems, exhibiting a general mathematical ability appropriate to their level, The AMTI(The Association for Mathematics Teachers of India), is conducting National Mathematics Talent Contest(NMTC).

Students can participate as the following categories:

Primary	Gauss Contest	V and VI Standard
Sub Junior	Kaprekar Contest	VII and VIII Standard
Junior	Bhaskara Contest	IX and X Standards
Inter	Ramanujan Contest	XI and XII Standards

Details of the Contest:

Sr. No	Parameters	Dates/Schedule
1	Exam Date	Stage 1: Preliminary Test on October 15, 2022 Stage 2: Final Test on January 7, 2023 Note: Only top 10% students from stage 1 will qualify for stage 2.
2	Declaration of Result	Stage 1: November 25, 2022 Stage 2: By the end of April 2023.
3	Mode of conduct	Offline
4	Type of Exam	❖ Preliminary test will be a two hours exam of objective type comprising of multiple choice, fill in the blanks etc. • 20% of the questions that are of moderate level , 80% of questions with higher level of difficulty, somewhat similar to Olympiad.

		❖ Final Test will be of 3 hours duration of subjective type reflecting the syllabi of PRMO, RMO, INMO and IMO.
5	Enrollment Fee per Subject	Rs 150/-
6	Last Date of Registration	12th September 2022, Monday.
7	Syllabus	Primary Level: i) ARITHMETIC: Fractions, percentages, profit and loss, tests of divisibility, LCM, HCF, Ratio and proportion, Calendar ii) MENSURATION: Triangles, Quadrilaterals, Circles. iii) ALGEBRA: Algebra as literal Arithmetic, Addition, subtraction, multiplication and division of simple Arithmetic expressions. iv) GEOMETRY: Straight lines, parallel lines, Angle properties of triangles, quadrilaterals and polygons. SUB JUNIOR: i) All the topics for primary and, ii) ARITHMETIC: Square roots and cube roots, Allegation, average , time and work, time and distance, Races, Games of skill, Travelling around a circle. iii) MENSURATION: Three Dimensional: cubes, cuboids, sphere, cone, cylinder, pyramids. ALGEBRA: Algebraic equations of degree 1 and degree 2. Algebraic identities, factorization of algebraic expressions, laws of indices, basics of surds. iv) GEOMETRY: Triangle inequalities, parallelograms, trapezoids, Pythagoras theorem. NUMBER THEORY: Prime and composite numbers, divisibility. [Note: Apart from these, the children shall practise to solve logical questions in basic mathematics].

		JUNIOR:
		i) All the topics for Primary, Sub junior and the following:
		ii) ALGEBRA: Quadratic and Higher degree Algebraic equations, Remainder theorem, Logarithms, Sequences and series, Scales of notations, Mathematical Induction, Basic inequalities.
		iii) GEOMETRY: Circle theorems, Chords, Arcs, Angles in segments, Cyclic Quadrilaterals, Tangents, Alternate Segment theorem, intersecting chord theorem, Apollonius theorem, and Stewart's theorem.
		iv) NUMBER THEORY: Modular arithmetic, Greatest Integer function, least integer functions. COMBINATORICS: Fundamental principle of counting, Basics of permutations and combinations, Principle of inclusion and exclusion, Pigeon hole principle.
		INTER:
		i) All the topics for Primary, Sub Junior, Junior and the following:
		ii) ALGEBRA: Polynomials, inequalities, (C-S inequality), Functional equations.
		iii) GEOMETRY: Trigonometric, vector, Coordinate Geometric and Complex number methods may be used.
		iv) NUMBER THEORY: Fermat and Wilson theorem, Diophantine equations. COMBINATORI

Wishing you "All the Best" for all your endeavors.

If interested kindly collect the consent form your respective Mathematics Teacher latest by September 5, 2022.

DPS Greater Noida