অসম গণিত শিক্ষায়তন

Assam Academy of Mathematics

Estd. 1986

(Regd. under Society Registration Act. XXI of 1860, Regd. No. 4097 of 1990-91)

Website : www.aamonline.org.in :: Email : mail@aamonline.in

ASSAM MATHEMATICS OLYMPIAD (AMO)

30th August 2026 — 10:00 AM to 1:00 PM

The Assam Mathematics Olympiad (AMO) is a state level mathematical competition organized by the Assam Academy of Mathematics (AAM) for school students since the year 1987.

- Interested students can fill up the form and submit it to the nearest Centre Coordinator along with a fee of **Rs. 150/-** per applicant.
- Forms can also be filled up online in the website **https://aamonline.org/online_admission**
- Last date of submitting the forms is **12th August 2026**

For syllabus and past question papers scan the QR Code on the left or visit this **link.**

CATEGORIES

- **Category - I :** Students of Classes V - VI
- **Category - II :** Students of Classes VII - VIII
- **Category - III :** Students of Classes IX - XI

The Assam Mathematics Olympiad is designed to test the mathematical understanding and problem solving skills of the students. The questions are mainly based on arithmetic, algebra, geometry, trigonometry, number theory, combinatorics, sets, relations and functions. The competition is also aimed at giving a platform of self evaluation to the students preparing for **Indian Olympiad Qualifier in Mathematics (IOQM)** conducted under the mathematical olympiad programme of Homi Bhabha Centre for Science Education (HBCSE), Mumbai.

To be held in 58 centres across Assam

Baihata Chariali, Bajali, Barnagar, Barpeta, Basugaon, Bijni, Biswanath Chariali, Bokakhat, Boko, Bongaigaon, Chabua, Chapar, Dhakuakhana, Dhemaji, Dhubri, Dibrugarh A- Rajabheta, Dibrugarh B- Dibrugarh Town, Digboi, Diphu, Dudhnoi, Duliajan, Goalpara, Gohpur, Golaghat, Gossaigaon, Guwahati A- Jalukbari, Guwahati B- Betkuchi, Guwahati C- Gopinath Nagar, Guwahati D- Noonmati, Hailakandi, Hajo, Hojai, Jagiroad, Jorhat, Kaliabor, Karimganj, Khetri, Kokrajhar, Lanka, Majuli, Mangaldoi, Mirza, Morigaon, Nagaon, Nalbari, Namrup, Nazira, North Lakhimpur, Rangia, Sadiya, Sibsagar, Silapathar, Silchar, Sonari, Tezpur, Tihu, Tinsukia, Tingkhong

Prizes, Awards & Recognition

- Selected students will get a chance to attend **Mathematical Olympiad Nurture Camp** to be held at **NIT Silchar** in **December 2026**.
- Top five scorers in each category will be awarded ranks.
- Prizes and books will be awarded to the rank holders.
- Selected students will be awarded certificates of merit.
- Selected students will be awarded certificates of appreciation.
- All the participating students will get an e-certificate of participation.

Single Page Application Form is attached here. Forms can also be filled up online in the website **https://aamonline.org/online_admission**

For details, contact the Centre Coordinators listed in the application form or the Olympiad Sub-Committee members listed below :

Dr. Biswajit Deb biswajittalk@gmail.com	**Mr. Pulin Chandra Medhi** pulinmedhi@gmail.com
Dr. Pinkimoni Goswami pinkimani.goswami15@gmail.com	**Dr. Pranjal Talukdar** pranjaltalukdar113@gmail.com
Dr. Neelav Sarma 20neelav16@gmail.com	**Mr. Rahul Paul** rahulpaulfb@gmail.com
Dr. Bikash Barman barmanbikash685@gmail.com	**Dr. Debashish Sharma** debashish@gurucharanuniversity.ac.in

For online application scan the QR Code below

Bulk registration of students for institutions is also available.
Please mail us at mail@aamonline.in for details.

Last Date of application : 12th August 2026
Admit Cards available from : 24th August 2026

ASSAM ACADEMY OF MATHEMATICS

ASSAM MATHEMATICS OLYMPIAD 2026

30th August 2026 :: SUNDAY :: 10 am to 1 pm

Classes V-VI, VII-VIII, IX-XI

Link for Online Application : https://aamonline.org/online_admission | Scan the above QR code to apply			
Centre		Roll No.	*Auto-generated in the Coordinator Login after entering the data individually or through bulk excel upload. Please do not give manual roll numbers.*

Application form to be submitted to the Centre Coordinator with fees of ₹ 150/-
(Students applying online need not fill up this form)

1. Full Name

   Put a Tick Mark ✔ — MALE ☐ FEMALE ☐ OTHER ☐

2. Name of the school

   Address of the school

   City / Town/ Village

   District — PIN

3. Parent / Guardian's name

4. Class (Put a Tick Mark ✔) — V ☐ VI ☐ VII ☐ VIII ☐ IX ☐ X ☐ XI ☐

5. Category (Put a Tick Mark ✔) — I (Classes V-VI) ☐ II (Classes VII-VIII) ☐ III (Classes IX-XI) ☐

6. Mobile Number

   Email ID

7. Date of Birth

8. Centre of choice * — Code ☐☐ Name

*Choose from the list of centres given in the next page

Signature of the applicant

Endorsement from the school

This is to certify that the applicant ……

is a student of Class …….. in the said school.

Signature and Seal of Principal / Class Teacher

This portion of instructions should be detached and given to the applicant

INSTRUCTIONS

1. Students are encouraged to fill this form online on the website https://aamonline.org/online_admission . *No need to visit the centre if the form is filled online with online payment.*
2. For offline submissions, students should submit the form along with a fee of Rs. 150/- to the Centre Coordinators after getting it duly signed by the Principal / Class Teacher on or before **12th August 2026**.
3. The Admit Card can be downloaded from the website https://aamonline.org.in/ from **24th August 2026** onwards.
4. Students should carry a photo ID card along with the Admit Card on the day of the examination.

For Syllabus and Past Question Papers please scan this QR code

Received Rs. 150/- from ……, Category …….. as Application Fees for AMO 2026 at …….. centre.

Signature of Centre Coordinator

Assam Mathematics Olympiad 2026
List of Centre Coordinators

Code	Centre	Centre Coordinators	Institution with address	Mobile No.	Email
01	Baihata Chariali	Dr. Indushri Patgiri	Pub Kamrup College, Baihata Chariali	8472931043	ip@pubkamrupcollege.org
02	Bajali	Dr. Ankur Sharmah	Bhattadev University, Bajali	7099857064	mat.ankur@bhattadevuniversity.ac.in
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07	Biswanath Chariali	Dr. Arun Chaliha	Biswanath College, Biswanath Chariali	9435506224	arunchaliha@gmail.com
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For any queries, please mail us at mail@aamonline.in

Syllabus of Assam Mathematics Olympiad
Assam Academy of Mathematics

Category - I (Classes V - VI)

• Number system. Concepts and problems related to place value and face value in the decimal number system. Use of the symbols =, < and >. Estimation of numbers, identifying smaller, larger etc. Natural numbers, whole numbers, integers. Properties of numbers (commutative, associative, distributive, additive identity, multiplicative identity, additive inverse, multiplicative inverse). Representation of integers on the number line.

• Statement problems involving the basic rules of addition, subtraction, multiplication and division. Conversions of units of length & mass (from the larger to the smaller units and vice-versa), Simplification of brackets, multiples and factors, divisibility rules and related problems. Even numbers, odd and prime numbers, composite numbers, co-prime numbers. Factorisation of numbers. HCF and LCM, prime factorization and division methods for HCF and LCM, the property LCM × HCF = product of two numbers.

• Fractions, representation of fractions (pictorially and on number line), fraction as a division, proper, improper & mixed fractions, equivalent fractions, comparison of fractions, addition and subtraction of fractions. Idea of a decimal fraction, place value in the context of decimal fraction, inter conversion of fractions and decimal fractions, word problems involving arithmetic operations on decimals. Ratio and Proportion, Unitary method, statement problems.

• Line, line segment, ray. Open and closed figures. Interior and exterior of closed figures. Angles - acute, obtuse, right, straight, reflex, complete and zero angle. Triangles — vertices, sides, angles, altitude and median. Classification of triangles (on the basis of sides and of angles). Quadrilaterals — sides, vertices, angles, diagonals, adjacent sides and opposite sides. Trapezium, parallelogram, rectangle, square, rhombus. Circles — centre, radius, diameter, arc, sector, chord, segment, semicircle, circumference. Intersecting and perpendicular lines, parallel lines

• Knowledge of 3-D shapes: Cubes, Cuboids, cylinder, sphere, cone, prism, pyramid and tetrahedrons. Symmetry of geometrical shapes, letters, words, numbers. Constructions (using straight edge, protractor, compasses) - line segment, circle, perpendicular bisector, angles, angle bisection, angle equal to a given angle (using compass), drawing a line perpendicular to a given line from a point on the line and from a point outside the line.

• Areas and perimeters of standard geometrical figures - triangle, rectangle, rhombus, square, parallelogram, circle, trapezium. Shapes of different kinds with the same perimeter/area. Patterns of geometrical shapes and designs.

• Data handling, collection and organisation of data in tally bars and a table, making bar graphs for given data interpreting bar graphs.

Category - II (Classes VII - VIII)

• Properties of integers (including identities for addition & multiplication, commutative, associative, distributive). Word problems including integers. Rational numbers - representation on number line, properties of rational numbers , operations on rational numbers, finding rational numbers between two rational numbers statement problems involving rational numbers. Number puzzles and games.

• Laws of exponents with integral powers. Square and Square roots. Square roots using factor method and division method for numbers. Cubes and cubes roots. Estimating square roots and cube roots.

• Algebraic expressions involving one or two variables. Constants, coefficients, powers, like and unlike terms. Polynomials degree of polynomials, addition, subtraction of polynomials. Algebraic identities, factorisation of polynomials, division of polynomials.

• Problems on percentages, profit & loss, overhead expenses, discount, ratio and proportion, unitary method, simple interest, compound interest, direct and inverse variation, time & work problems.

• Pairs of angles (linear pair, supplementary, complementary, adjacent, vertically opposite). Properties of parallel lines with transversal (alternate, corresponding, interior, exterior angles). Angle sum property of triangle, exterior angle property, triangle inequality of sides, Pythagoras Theorem. Angle sum property of quadrilateral. Properties of rectangles, squares, rhombus, parallelograms.

• Reflection and rotational symmetry. Counting vertices, edges & faces & verifying Euler's relation for 3-D figures with flat faces (cubes, cuboids, tetrahedrons, prisms and pyramids). Congruence of triangles, SSS, SAS, AAS, ASA and RHS criteria. Construction of triangles, parallel lines, quadrilaterals using ruler and compass.

• Areas of a square, rectangle, triangle, parallelogram and circle, trapezium, area between two rectangles and two concentric circles, volume of a cube, cuboid and cylinder, Surface area of a cube, cuboid, cylinder, related problems.

• Basic ideas of set theory - types of sets, subsets, null set, finite and infinite sets, union and intersection of sets, complement of a set. Principles of counting - addition rule, subtraction rule, multiplication rule and division rule. Permutation and combination of objects, related problems.

• Mean, median and mode of ungrouped and grouped data. Constructing and interpreting bar-graphs. Simple Pie charts with reasonable data numbers.

Category - III (Classes IX - XI)

• Number systems, rational numbers, irrational numbers, real numbers. Number theory - well ordering principle, division algorithm, divisibility theory, GCD and LCM, Euclidean algorithm, Diophantine Equation, prime numbers and their properties, fundamental theorem of arithmetic, theory of congruences, linear congruences, Fermat's little theorem, Wilson's theorem. Number theoretic functions τ, σ and Euler's φ function, Euler's theorem. Greatest integer function.

• Sets, relations and functions. One-one functions, onto functions, bijections, inverse of a bijection. Counting principles - addition rule, subtraction rule, multiplication rule, division rule. Permutation and combination of distinct objects. Permutations and combinations with repetitions. Inclusion-Exclusion principle. Pigeonhole principle.

• Polynomials in one variable, coefficients, terms, degree of a polynomial. Constant, linear, quadratic, cubic polynomials; monomials, binomials, trinomials etc. Factors and multiples. Zeros/roots of a polynomial/equation. Relation between roots and coefficients. Remainder Theorem, Factor Theorem and related problems. Algebraic identities involving several variables. Linear equations in two variables, the cases of unique solution, no solution and infinitely many solutions. Quadratic equations. Statement problems.

• Arithmetic, geometric and harmonic progressions. Inequalities involving arithmetic mean, geometric mean and harmonic mean. Cauchy Schwartz inequality.

• Euclidean Geometry, lines and angles, triangles, quadrilaterals, circles, and their properties, congruence and similarity of triangles. Mensuration - area, perimeter, surface area and volumes of standard geometrical objects.

Recommended books

• NCERT / SEBA / AHSEC recommended textbooks.

• Elementary Number Theory; David M. Burton; McGraw Hill Education.

• Introductory combinatorics; Richard A. Brualdi; Pearson Education Inc.

• Mathematical Circles; Dmitri Fomin, Sergey Genkin, Ilia Itenberg; Universities Press.

• A Moscow Math Circle; Sergey Dorichenko; Universities Press.

• Functional Equations; B.J.Venkatachala; Prism Books Pvt. Ltd.

• International Mathematical Olympiad (Volumes I to III); Istvan Reiman; Anthem Press.

• Problem Solving Strategies; Arthur Angel; Springer.

• Challenge and thrill of pre-college mathematics; V.K.Krishnamurthy et.al.; New Age International Publishers.

**** The students can retain the syllabus copy while submitting the form.***