



IHSB STEM FEST 2026

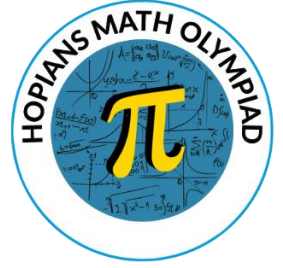
Concern of INTERNATIONAL HOPE SCHOOL BANGLADESH



Dear Sir/Ma'am,

Warm greetings from the IHSB STEM Fest Organizing Team at International Hope School Bangladesh (IHSB)!

In the following document you will find the detailed information about our upcoming Event, the "Hopians Math Olympiad."



Event Details:

Event Date: 23rd January 2026 (Friday) (Competition Day)
24th January 2026 (Saturday) (Award Ceremony)

Registration Fee: Individual Competition - **BDT 500 ₳**

Registration Deadline: 10th January 2026

Category Details:

The Event has been divided into FOUR Categories

- **Junior Category** (Grade: 03 - 05)
- **Middle - School Category** (Grade: 06 - 08)
- **Secondary Category** (Grade: 09 - 10)
- **Higher Secondary Category** (Grade: 11 - 12)

Competition Details:

- The **OLYMPIAD** Will Consist of **ONE ROUND**.
- The Use of **CALCULATOR** is **STRICTLY PROHIBITED**.
- The Duration will be 50 Minutes for the Junior Category and 1 Hour 30 Minutes for the others.
- The questions will comprise of Multiple Choice Question (MCQ).
- Negative Markings **WON'T BE APPLIED** in Case of **INCORRECT ANSWERS**.
- Please Note that all the **OLYMPIADS QUESTION** will be **PRESENTED** in **ENGLISH!**
- **Top 05 Students from each Category will be AWARDED!**
(May Vary Depending on Number of Participants)

*** Exclusive Invitation to the Award Ceremony will be extended solely to the TOP ACHIEVERS in recognition of their outstanding Performance. ***



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For any inquiries or queries related to the "**Hopians Math Olympiad**," we encourage you to reach out to the designated contact points listed below:

Hopians Math Olympiad

Event Affairs

Contact Details:

E-Mail: math.olympiad@ihsb.edu.bd

Rifah Mahmood

Team Lead | PA Department - HMO
IHSB STEM Fest

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STEM FEST Coordinator

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Our team is committed to assisting you and providing any necessary information or clarification. Your engagement and enthusiasm are integral to the success of the event, and we welcome the opportunity to address any questions you may have.

Thank you for your cooperation, and we eagerly anticipate your active participation in the **Hopians Math Olympiad**.

Sincerely,

IHSB STEM Fest Organizing Team

Uttara Main Campus

INTERNATIONAL HOPE SCHOOL BANGLADESH



Junior Category Syllabus (Grade: 3 – 5)

Numbers	<ul style="list-style-type: none">➤ BODMAS Rule➤ Counting & Sequences➤ Decimals➤ Fractions➤ Integers & Powers	<ul style="list-style-type: none">➤ Money➤ Ordering & Rounding➤ Place Value➤ Ratio & Proportion
Geometry and Measurement	<ul style="list-style-type: none">➤ Unit Conversions (Length, Capacity, Time)➤ Angles➤ Area➤ Circles➤ Congruent Figures	<ul style="list-style-type: none">➤ Geometrical Reasoning➤ Length & Width➤ Perimeter➤ Polygons➤ Transformation➤ Solids
Statistics	<ul style="list-style-type: none">➤ Handling Data➤ Mean, Median, Mode➤ Permutation	<ul style="list-style-type: none">➤ Data Representation➤ Range
Word Problems	<ul style="list-style-type: none">➤ Age➤ Distance➤ Money	<ul style="list-style-type: none">➤ Speed Problems➤ Time
Algebra	<ul style="list-style-type: none">➤ Equations	<ul style="list-style-type: none">➤ Equations
Non-Routine Problem Solving	<ul style="list-style-type: none">➤ Brain Teasers➤ Cryptarithms➤ Divisibility Tests	<ul style="list-style-type: none">➤ Mental Math➤ Number Patterns➤ Logic Problems



Middle - School Category Syllabus (Grade: 6 – 8)

Algebra	<ul style="list-style-type: none">➤ Equations➤ Exponents➤ Expressions➤ Factorizations	<ul style="list-style-type: none">➤ Inequalities➤ Polynomials➤ Radicals
Functions	<ul style="list-style-type: none">➤ Applied Problems➤ Graph of a Function	<ul style="list-style-type: none">➤ Properties of Functions➤ Transformation of Graphs
Geometry & Measurement	<ul style="list-style-type: none">➤ Angles➤ Area➤ Circles➤ Congruent Figures➤ Length & Width➤ Perimeter	<ul style="list-style-type: none">➤ Polygons➤ Pythagorean Formula➤ Similarity➤ Solids➤ Volume
Non-Routine Problem Solving	<ul style="list-style-type: none">➤ Divisibility Tests➤ Number Patterns➤ Spatial Visualisation	<ul style="list-style-type: none">➤ Logic Problems & Cryptarithms➤ Mental Math & Brain Teasers
Numbers	<ul style="list-style-type: none">➤ BEDMAS Rule➤ Counting & Sequences➤ Decimals➤ Fractions➤ Integers & Power➤ Money	<ul style="list-style-type: none">➤ Operations & Properties➤ Ordering & Rounding➤ Percentages➤ Place Value➤ Rational Numbers➤ Ratio & Proportions
Sets	<ul style="list-style-type: none">➤ Concepts of Sets➤ Set Language & Notation	<ul style="list-style-type: none">➤ Set Theory
Statistics & Probability	<ul style="list-style-type: none">➤ Average➤ Combinatorics➤ Handling data➤ Mean➤ Median➤ Mode	<ul style="list-style-type: none">➤ Permutation➤ Presenting & Interpreting Data➤ Probability➤ Range➤ Statistics
Word Problems	<ul style="list-style-type: none">➤ Age➤ Distance➤ Money➤ Number	<ul style="list-style-type: none">➤ Speed Problems➤ Time➤ Verbal Equation



Secondary Category Syllabus (Grade: 9 – 10)

Algebra	<ul style="list-style-type: none">➤ Equations➤ Exponents➤ Expressions➤ Factorizations	<ul style="list-style-type: none">➤ Inequalities➤ Polynomials➤ Radicals
Functions	<ul style="list-style-type: none">➤ Applied Problems➤ Composition of Function➤ Graph of a Function	<ul style="list-style-type: none">➤ Inverse Function➤ Properties of Functions➤ Transformation of Graphs
Geometry & Measurement	<ul style="list-style-type: none">➤ Analysis of Circles➤ Analysis of Lines➤ Area➤ Coordinate Geometry	<ul style="list-style-type: none">➤ Perimeter➤ Polygons➤ Similarity➤ Solids
Non-Routine Problem Solving	<ul style="list-style-type: none">➤ Divisibility Tests➤ Number Patterns➤ Spatial Visualisation	<ul style="list-style-type: none">➤ Logic Problems & Cryptarithms➤ Word Problems
Numbers	<ul style="list-style-type: none">➤ Counting & Sequences➤ Decimals➤ Fractions➤ Integers & Power➤ Money	<ul style="list-style-type: none">➤ Operations & Properties➤ Ordering & Rounding➤ Percentages➤ Place Value➤ Ratio & Proportions
Sets	<ul style="list-style-type: none">➤ Concepts of Sets➤ Set Language & Notation	<ul style="list-style-type: none">➤ Set Theory
Statistics & Probability	<ul style="list-style-type: none">➤ Average➤ Combinatorics➤ Permutation	<ul style="list-style-type: none">➤ Presenting & Interpreting Data➤ Probability➤ Statistics
Trigonometry	<ul style="list-style-type: none">➤ Trigonometric Equations➤ Trigonometric Functions➤ Trigonometric Inequality	<ul style="list-style-type: none">➤ Fundamentals of Trigonometry➤ Trigonometric Theorems & Formulas



Higher - Secondary Category Syllabus (Grade: 11 - 12)

Derivatives	<ul style="list-style-type: none">➤ Continuous Functions➤ Indeterminate Forms➤ Limit of a Derivative➤ Optimization Problems	<ul style="list-style-type: none">➤ Applications of Differentiation➤ Plotting Graphs➤ Techniques of Differentiation
Geometry & Measurement	<ul style="list-style-type: none">➤ Analysis of Circles➤ Analysis of Lines➤ Coordinate Geometry➤ Polygons	<ul style="list-style-type: none">➤ Solids➤ Symmetry➤ Vectors
Integrals	<ul style="list-style-type: none">➤ Integration Methods	<ul style="list-style-type: none">➤ Antiderivative & Indefinite Integral
Logarithmic & Exponential Functions	<ul style="list-style-type: none">➤ Exponential Equations➤ Logarithmic Equations➤ Logarithmic & Exponential Inequality➤ Properties & Graphs of Exponential Functions➤ Properties & Graphs of Logarithmic Functions	
Non-Routine Problem Solving	<ul style="list-style-type: none">➤ Divisibility Tests➤ Number Patterns➤ Spatial Visualisation	<ul style="list-style-type: none">➤ Logic Problems & Cryptarithms➤ Word Problems
Quadratics Functions & Equations	<ul style="list-style-type: none">➤ Counting & Sequences➤ Decimals➤ Fractions➤ Integers & Power➤ Money	<ul style="list-style-type: none">➤ Operations & Properties➤ Percentages➤ Place Value➤ Ratio & Proportions
Series & Sequences	<ul style="list-style-type: none">➤ Arithmetic & Geometric Sequences➤ Series	
Statistics & Probability	<ul style="list-style-type: none">➤ Average➤ Combinatorics➤ Permutation	<ul style="list-style-type: none">➤ Presenting & Interpreting Data➤ Probability➤ Statistics
Trigonometry	<ul style="list-style-type: none">➤ Fundamentals of Trigonometry➤ Trigonometric Equations➤ Trigonometric Functions of Real Number➤ Trigonometric Inequality➤ Trigonometric Theorems & Formulas	