

SEAMO 2023

SOUTHEAST ASIAN
MATHEMATICAL OLYMPIAD







What is SEAMO?

SEAMO stands for the South-East Asian Mathematical Olympiad. It is an international mathematics competition that aims to foster mathematical excellence among students in the South-East Asian region. SEAMO provides a platform for students to demonstrate their problemsolving skills and creative thinking in mathematics.





The competition is designed to challenge participants with a range of mathematical problems that go beyond the standard curriculum, encouraging them to explore different mathematical concepts and apply them in innovative ways. SEAMO also offers an opportunity for students to compete internationally and gain recognition for their mathematical achievements.

Advantagous & Benefits for Participants





Academic Excellence

Olympiad competitions provide a platform for students to showcase their academic skills and excel in a specific subject, such as mathematics, science, or literature. By participating and performing well, students demonstrate a high level of proficiency and mastery in the subject area.



Skill Development

Olympiad competitions foster the development of essential skills beyond traditional academics. Participants enhance their critical thinking, problem-solving, logical reasoning, and analytical abilities. These skills are transferable and valuable across various academic disciplines and real-life situations.



Challenge and Growth

Olympiad competitions present challenging and thought-provoking problems that push participants to think outside the box. This encourages them to expand their knowledge, explore advanced concepts, and develop innovative approaches to problem-solving.



Recognition and Prestige

Olympiad competitions offer participants the opportunity to gain recognition and prestige both locally and globally. Achieving a high rank or receiving medals or certificates of distinction brings honor and enhances a participant's academic profile. This recognition can open doors to scholarships, internships, and other academic and career opportunities.



Networking and Collaboration

Olympiad competitions provide a platform for participants to meet and interact with like-minded students from different schools, regions, and even countries. This fosters networking, collaboration, and the exchange of ideas. Participants can form friendships, share knowledge, and learn from each other's perspectives, fostering a sense of camaraderie and mutual growth



Personal Growth and Confidence Building

Participating in Olympiad competitions helps students develop self-confidence, resilience, and a growth mindset. Facing challenging problems and persevering through the competition process builds resilience, determination, and a willingness to take intellectual risks.



Enriched Educational Experience

Engaging in Olympiad competitions extends the educational experience beyond the classroom. Participants encounter challenging problems that go beyond the standard curriculum, exposing them to advanced concepts and stimulating intellectual curiosity. This enriches their educational journey and broadens their understanding of the subject.



Scholarly and Career Opportunities

Achieving success in Olympiad competitions can open doors to prestigious scholarships, educational opportunities, and internships. Universities and educational institutions often value Olympiad achievements and consider them in their admissions processes. Olympiad participants may also gain a competitive edge in pursuing future careers in related fields, such as research, academia, or STEM industries.



Enhanced Problem-Solving Skills

Olympiad competitions expose participants to complex and challenging problems that require creative thinking and innovative problem-solving strategies. By tackling these problems, participants develop a deeper understanding of the subject matter and enhance their ability to approach and solve problems effectively.



Competitive Edge

Achieving success in Olympiad competitions sets participants apart from their peers and gives them a competitive edge. It demonstrates a higher level of academic proficiency, dedication, and commitment to excellence, which can be advantageous when applying for scholarships, college admissions, or future career opportunities.



Experiential Learning

Olympiad competitions provide a hands-on, experiential learning opportunity outside the traditional classroom setting. Participants engage in practical application of knowledge, applying theoretical concepts to real-world scenarios. This promotes a deeper understanding of the subject and strengthens their practical skills.



International Exposure

Some Olympiad competitions have an international scope, bringing together participants from various countries. This offers a unique opportunity for participants to gain exposure to different cultures, perspectives, and educational systems. It promotes global awareness and fosters a sense of global citizenship.



Mentorship and Guidance

Olympiad competitions often provide participants with access to experienced mentors, coaches, and experts in the field. These mentors offer guidance, support, and feedback to help participants improve their skills and performance. The mentorship aspect adds value to the overall learning experience.



Motivation and Goal Setting

Olympiad competitions serve as a motivating factor for participants to set goals, work towards them, and strive for continuous improvement. The competitive nature of the competition and the desire to excel drive participants to dedicate time and effort to their studies, fostering a strong work ethic and self-discipline.



Personal Fulfillment

Participating in Olympiad competitions allows students to pursue their passion for a specific subject and engage in intellectual pursuits. The satisfaction derived from solving challenging problems, achieving personal milestones, and realizing one's potential contributes to a sense of personal fulfillment and a love for lifelong learning.



Access to Resources

Olympiad competitions often provide participants with access to a wide range of resources, including study materials, practice tests, and reference materials. These resources can aid participants in their preparation and serve as valuable learning tools beyond the competition.

Paper Categories



PAPER K

Kindergarten I Grade 1 & 2

Age 6 - 7

PAPER A
Primary I Grade 3 & 4
Age 8 - 9

PAPER B

Middle Primary I Grade 5 & 6

Age 10 - 11

PAPER C
Primary I Grade 7 & 8
Age 12 - 13

PAPER D

Junior I Grade 9 & 10

Age 14 - 15

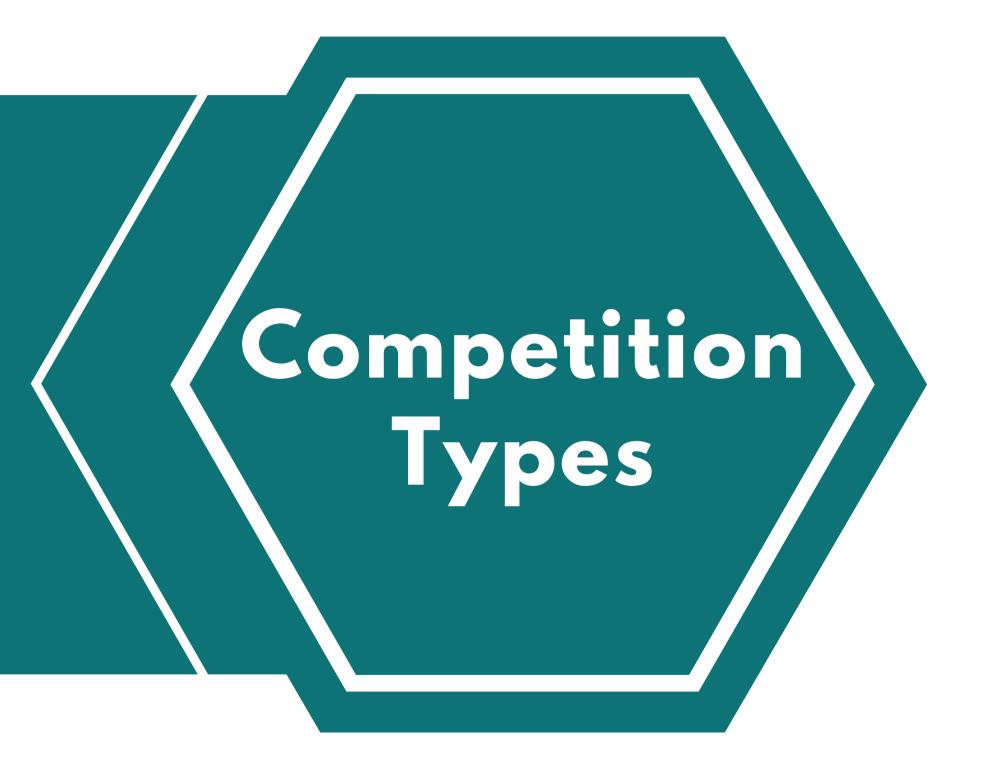
PAPER E
Intermediate I Grade 11 & 12
Age 16 - 17

PAPER F
Senior I Grade 13 +
Age 18 - 19

Paper Categories

Competition Format







SEAMO local competition is specifically designed to cater to the talents and potential of local students in the region.



SEAMO X

Global competition

SEAMO X global competition is an exclusive opportunity specifically designed for the esteemed medal winners of the SEAMO competition.



Candidates will be ranked by Grade Level within their country.

Results displayed

- Award
- Local Rank
- Local Percentile

Global Rank and Global Percentile applies to SEAMO X Candidates only.

In statistics, percentile indicates a candidate's performance with respect to the performance of other candidates. The highest score correlates to the 100.00th percentile while the average score correlates to the 50.00th percentile.



	Section A		Section B	
	Multiple Choice		Free Response	
Question	1 to 10	11 to 20	21 to 25	
Marks	3	4	5	
Instructions	Choose the best answer for the five possible options. On your answer sheet fill in the oval that matches your answer		On the answer sheet fill in the answer within the box provided.	

FRAMEWORK

- Build students competence and confidence to excel in a competitive setting.
- Challange students to face increasingly complex cross-topic and non-routine problems to develop Critical Thinking in their Problems-Solving skills.
- Expose students to problem-solving strategies and tools that enable them to solve problems sums with speed and accuracy.



Curriculum & Syllabuses



Paper K
For participants in Kindergarten



01 Algebra

02 Arithmetic

03 Analysis

04 Combinatorics

05 Geometry

06 Logic

07 Word Problems

08 Number Patterns

Geometric Patterns

10 Number Puzzles

Paper A
For participants aged 7 to 8 years



01 Time

O2 Addition and Subtraction

03 Multiplication

04 Number Pattern

Counting

06 Shortest Path

07 Queuing Problem

08 Pigeonhole Principle

09 IQ

10 Logic

11 Odd and Even Numbers

Sum of a Number Sequence

13 Working Backwards

14 Simple Speed

Paper B
For participants aged 9 to 10 years



01 Time

02 Addition and Subtraction

Multiplication

04 Division

Remainder Problem

06 Number Pattern

07 Number Puzzle

Counting

09 Shortest Path

10 Queuing Problem

11 Pigeonhole Principle

12 IQ

13 Logic

14 Odd and Even Numbers

15 Sum of a Number Sequence

16 Working Backwards

17 Speed

18 Values of Ones Digit

Paper C
For participants aged 11 to 12 years

SEA NO SOUTHEAST ASIAN MATHEMATICAL OLYMPIAD

O1 The Four Operations

02 Whole Numbers

03 Fractions

04 Permutation

05 Combination

06 Pigeonhole Principle

07 Number Sequence

08 Logic

09 Average

10 Square Number

11 Prime Numbers

12 Prime Factorization

13 Defining New Operations

14 Working Backwards

15 Speed

Ratio and Percentage

17 Area of Circle

18 Angles and Triangles

19 Probability

20 Charts

.....

Paper D

For participants aged 13 to 14 years

SEA A SOUTHEAST ASIAN MATHEMATICAL OLYMPIAD

01 Simple Equations

02 Rational Numbers

03 Indices

04 System of Equations

Multiplication of Polynomials

06 Divisibility

07 Prime and Composite Numbers

08 Square Numbers

09 Even and Odd Numbers

10 GCD and LCM

11 Permutations and Combinations

12 Probability

13 Pythagorean Theorem

14 Pigeonhole Principle

15 Problem on Journey

16 Profit and Loss

7 Circles

18 Geometry

Paper E

For participants aged 15 to 16 years

SEAMO

01 Simple Equations

02 Rational Numbers

03 Indices

04 System of Equations

Multiplication of Polynomials

06 Divisibility

07 Prime and Composite Numbers

08 Square Numbers

09 Even and Odd Numbers

10 GCD and LCM

11 Permutations and Combinations

12 Probability

13 Pythagorean Theorem

14 Pigeonhole Principle15 Journey Problems

16 Profit and Loss

17 Circles

18 Geometry

Paper F

For participants aged 17 to 18 years



01 Quadratics Equations

O2 Relations and Functions

03 Rational Numbers

04 Indices

05 Logarithms

06 Binomial Theorem

07 Trigonometric Identities

08 Arithmetic and Geometric Progression

09 Number Theory

10 System of Equations

11 Multiplication of Polynomials

12 Divisibility

13 Prime and Composite Numbers

4 Square Numbers

15 Even and Odd Numbers

16 GCD and LCM

17 Graphical Solutions to Equations

18 Probability

19 Pythagorean Theorem

20 Combinatorics

EAMO 2016 | Terry Chew Institute of Mathematical Olympiads

SEAMO 2016 | Terry Chew Institute of Mathematical Olympia

SEAMO 2016 | Terry Chew Institute of Mathematical Olympiac

Rewards





	AWARD	PERCENTILE	DESCRIPTION	PRIZES
	Gold	92 nd and above	Candidates who scored the same as or higher than 92% of participants.	Medal and Printed Certificate
	Silver	Less than 92 nd but greater or equal to 80 th	Candidates who scored less than 92% but the same as or higher than 80% of participants.	Medal and Printed Certificate
	Bronze	Less than 80 th but greater or equal to 60 th	Candidates who scored less than 80% but the same as or higher than 60% of participants.	Medal and Printed Certificate
Participation		Below 60 th	Candidates who scored lower than 60% of participants.	Electronic Certificate of Participation















Registration







SEAMO 2023

23rd September 2023 Closing date: 15th Sep 2023



SEAMO X 2024

19th - 22nd January 2024 in Singapore



Registration is done online at https://seamo.lk/

It can be done as a candidate, a parent or a teacher

If the candidate has participated before, enter the same Candidate Number (CAN) as the previous years

After registering, make payments as per invoice instructions

Take the exam on SEAMO's Online Exam Portal or in Physical Exam Center

Results will be released on early November at https://seamo.lk/results/

Registration for SEAMO-X starts

SEAMO 2023 awards will be delivered in mid December 2023

Support & Resources







SEAMO Sri Lanka website https://seamo.lk



SEAMO Singapore website https://seamo-official.org



SEAMO Sri Lanka LMS portal https://learn.seamo.lk



Resources https://learn.seamo.lk/shop/



Student Login / Register

https://seamo-official.org/home/login



Contact Us

Website: www.seamo.lk

Email : srilanka@seamo-official.org

seamosrilanka@gmail.com

Address: No.167A, Thomson Road, Goldhill

Shopping Centre, Singapore

No. 194/C/11, Minuwangoda Road, Ekala,

Ja-Ela, Sri Lanka

No. 545/2 B, Athurugiriya Road, Malabe,

Sri Lanka

P.O. Box 222, Nugegoda, Sri Lanka.

Voice : +94 11 790 9941

+94 77 156 9266



— SEAMO Sri Lanka —

THANK YOU