The Global Math Excellence Guide: Competitions, Camps, and Exams

"A work in progress" Comprehensive Directory for Indian Students

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Introduction

This document has been made to give an exhaustive list of Math related Competitions, Camps, and Exams outside Inida, that an Indian student can partake in, and is still ever increasing. If you find anything that this document doesn't list, please feel free to contact Sagar Shrivastava (email : `sagar.s.maths@gmail.com`).

UNITED STATES OF AMERICA (USA)

The AMC Series

- **AMC (American Mathematics Competitions) 10/12**
  - **Eligibility:** AMC 10 (Grade 10 or below, age < 17.5); AMC 12 (Grade 12 or below, age < 19.5).
  - **Timeline:** Exam in November; Registrations open Sept/Oct.
  - **Process:** Indian students apply through authorized test centers (e.g., coaching institutes or select schools).
- **AIME (American Invitational Mathematics Examination)**
  - **Eligibility:** Top scorers of AMC 10/12.
  - **Timeline:** Held in February.

Elite University Team Tournaments

- **HMMT (Harvard-MIT Mathematics Tournament), SMT (Stanford Math Tournament), BMT (Berkeley Math Tournament)**
  - **Eligibility:** High school students (Teams of 6–8).
  - **Timeline:** Varies (Fall and Spring cycles).
  - **Process:** International teams can register for onsite or satellite/online versions.

Premier US Summer Residential Programs

- **Ross Mathematics Program**
  - **Description:** A world-renowned 6-week intensive program focusing on Number Theory.
  - **Eligibility:** Students aged 15–18 with a deep interest in math.
  - **Timeline:** Applications open in January; Deadline in March. Program held June–July.
  - **Website:** rossprogram.org

- **SUMaC (Stanford University Mathematics Camp)**
  - **Description:** Competitive program at Stanford University focusing on Abstract Algebra and Topology.
  - **Eligibility:** Students in Grade 10 and 11.
  - **Timeline:** Applications open in January; Deadline in early March.
  - **Website:** sumac.spcs.stanford.edu

UNITED KINGDOM (UK)

- **UKMT (United Kingdom Mathematics Trust) Challenges**
  - **Exams:** Junior, Intermediate, and Senior Mathematical Challenges.
  - **Eligibility:** Grades 6–12 depending on the challenge level.
  - **Timeline:** Senior Challenge in October; Intermediate in Jan/Feb; Junior in April.
  - **Process:** Registered through overseas schools or centers.
  - **Website:** ukmt.org.uk

CANADA

- **CEMC (Centre for Education in Mathematics and Computing) Euclid & Fermat**
  - **Exams:** Fermat (Grade 11); Euclid (Grade 12).
  - **Timeline:** Fermat in February; Euclid in April.
  - **Note:** Euclid is a prerequisite for many University of Waterloo math scholarships.
  - **Website:** cemc.uwaterloo.ca

SINGAPORE & SOUTH EAST ASIA

- **SASMO (Singapore and Asian Schools Math Olympiad)**
  - **Eligibility:** Grade 1 to 12.
  - **Timeline:** Held in April.
  - **Website:** sasmo.sg
- **SEAMO (Southeast Asian Mathematical Olympiad)**
  - **Eligibility:** Grade 1 to 12.
  - **Timeline:** Registration closes in August; Exam in September.

AUSTRALIA

- **AMC (Australian Mathematics Competition)**
  - **Eligibility:** Grade 3 to 12.
  - **Timeline:** Usually held in August.
  - **Process:** Conducted through schools or local coordinators in India.

IRAN & RUSSIA (Subject-Specific)

- **ICO (Iranian Combinatorics Olympiad)**
  - **Focus:** Pure Combinatorics and Graph Theory.
  - **Timeline:** Held in late October/November. Free online participation for international students.
- **Sharygin Geometry Olympiad (Russia)**
  - **Focus:** Euclidean Geometry.
  - **Eligibility:** Grades 8–11.
  - **Process:** Correspondence round (solve at home) from Jan–March.

INTERNATIONAL APPLIED MATH & MODELING

- **HiMCM (High School Mathematical Contest in Modeling)**
  - **Eligibility:** Teams of up to 4 high school students.
  - **Timeline:** Held in November (13-day window, teams choose a continuous 36-hour period).
  - **Website:** comap.com/himcm
- **IMMC (International Mathematical Modeling Challenge)**
  - **Timeline:** Held in March/April. Teams must qualify through a national round.

RESOURCES FOR PREPARATION

- **AoPS (Art of Problem Solving):** The definitive global community for olympiad math.
- **OTIS (Olympiad Training for Individual Study):** Advanced training by Evan Chen.
- **ICTS (International Centre for Theoretical Sciences) Math Circle:** Mentorship for Indian students based in Bangalore/Online.