



# 2025 Math Kangaroo Asia Camp

An International Math Carnival for Gold Medal students  
in Math Kangaroo Countries!

- Targeted invitations to Global students in grades 4-8 who have won Gold Award and above in Math Kangaroo
- Compete with global elites in various individual and group challenges
- 3 group level suitable for different grades
- Various workshops cultivating math thinking in games
- Diverse academic socializing: Math Carnival | Team Show | Math Bazaar | Gala Party

Date: Jul.13, 2025 - Jul.18, 2025 (6 days)

Location: Hainan, China

Language: English & Chinese

Deadline: Jun. 23, 2025




Math Kangaroo was proposed by Peter O'Halloran, an Australian mathematician and teacher, in the 1980's. In 1991, this idea was taken up in Paris, France. Very quickly, it spread throughout Europe. The competition began to be called "Kangaroo" because of its Australian origin.


The main purpose of Math Kangaroo is to promote mathematical thinking and stimulate an interest in math, by providing students with an opportunity to compare their abilities against the abilities of other students, from different countries around the world. Math Kangaroo is now the largest math competition for school students in the world. To promote the elites' communication, deepen the dissemination of the "Association Kangourou sans Frontières", and aim to nurture future mathematicians, Math Kangaroo hosts the International Camps globally every summer, inviting participants who achieve gold award. Being selected to the Math Kangaroo Camp will be a very rare international honour and a very exciting maths learning experience to the participants. The content modules of Math Kangaroo International Camps across continents are generally consistent, with slight adjustments based on the mathematical resources of the host country.


## Math Kangaroo Asia Camp




2025 Math Kangaroo Asia Camp will be held in Hainan, China in summer vacation, planning to invite gold or above awards winners from Asian countries including **China, Malaysia, Vietnam, Thailand, Myanmar, Singapore, Indonesia, South Korea, Turkey, Ghana, Saudi Arabia, Kazakhstan, the United States and others**. Students will have the opportunity to engage in in-depth mathematical discussions under the guidance of internationally renowned mathematicians, participate in mathematical competitions and socialize with representatives all over the world.

 **Date:** Jul.13, 2024 – Jul.18, 2024 (6 days)

 **Location:** Hainan, China

 **Language:** English & Chinese

 **Grade:** Open to students in grades 4–8, who achieve gold or above awards (The camp will be divided into three groups: Junior (Grade 4), Intermediate (Grade 5–6), and Senior (Grade 7–8))

## Flag Roll-Call in Opening Ceremony

A representative from each country will represent your country at the opening ceremony! The national flag will fly at the Kangaroo Asia Camp site.





# 1

## ••• Keynote Speech: History and Charm of Math Kangaroo •••

Dr. Meike Akveld, President of the Association Kangourou sans Frontières (AKSF),

will explore the history and charm of Math Kangaroo together with students, creating a "Kangaroo Without Borders" Asian Camp together, aiming to transform mathematics into a bridge connecting the world.

President of AKSF | President of Kangaroo Switzerland Association | Vice President of World Federation of National Mathematics Competitions (WFNMC) | Professor at the Department of Mathematics, ETH Zürich | Co-Chair of the GoMath Committee at the Department of Mathematics, ETH Zürich



● Keynote speaker: Dr. Meike Akveld

# 2

## ••••• Math Workshops: Immersive Learning •••••

Students will challenge the limits of logical thinking through cooperative inquiry, competitive games, and presentation showcases. To be a mathematical explorer, no longer receiving knowledge passively but actively engaging in real-world scenarios! Let's show our mathematical magic together!

### Sample Topics



#### Cross Math

Board Game: Arithmetical challenge

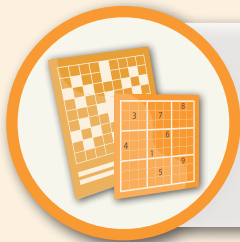
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#### Math Magic

Logical thinking as a math magician

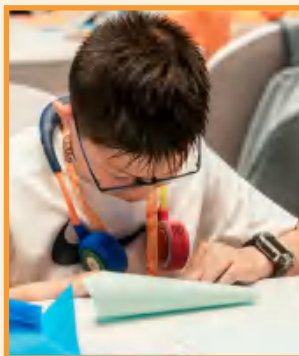
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#### Puzzles Games

Classic math puzzles

03



\* Themes between different groups will be coordinated based on difficulty, with the final schedule subject to pre-trip arrangements.

# 3

## ••••• Math Challenges: International Competition •••••

Compete with math enthusiasts all over the world! Individual challenges provide an opportunity to show independent mathematical power. Students will also have the chance to work as teams with other gold medalists to solve mathematical problems. In this clash of titans, who will seize the moment of glory?



### Individual Round

The individual round provides opportunities for each student to showcase their talents, fostering their confidence and independent thinking abilities. Students will individually solve a series of mathematical questions or challenges within a limited time. This is not just about simply learning mathematical knowledge but also provides an opportunity to experience the practical applications and joys of mathematics in everyday life.



### Team Round

Call the collective wisdom into full play! Students will form teams of 4 with other awardees (full marks or gold awards). Within a limited time, they will undertake challenges from problem-solving to puzzles, seeking a chance for awards, which not only test students' mathematical abilities but cultivate their teamwork, communication, and problem-solving, laying a solid foundation for their future learning and life endeavors.



### Team Round - Challenge 1



This challenge requires the team to complete a set of questions, showcasing the team's strength and cohesion through teamwork.

### Team Round - Challenge 2



The team will be divided into two groups in Mathematical Crossword Challenge. One fills answers vertically, while the other fills horizontally.



### Guts Round

Guts Round, following the classic format of the Harvard-MIT Mathematics Tournament, is an intense battle against time, aiming to test the team's quick response and efficient problem-solving abilities. There are 9 sets of questions, each containing several questions. Teams can only access the next set after completing and submitting a set. The scoreboard will be updated in real time. To achieve better results, team members need to brainstorm, completing each set of questions as fast as possible.



## 3

### • • • • • Math Challenges: International Competition • • • • •

#### Examples of Math Challenge Questions

##### ■ Questions Close to Life

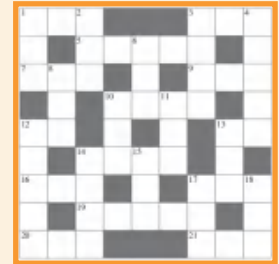
John is in a race that takes him 30 minutes to complete. After he has started, his smartwatch reports his heart rate to him every 2 min 20 sec. How many times does his smartwatch report his heart rate, during the race?

\* Example of Junior Group

##### ■ Diverse Problem-Solving Forms

Complete the puzzle based on the clues on the crossboard and the answers of your teammates

\* Example of Intermediate Group



## 4

### • • • • • Math Social: Mental and Physical Exercise • • • • •



#### Math Carnival

Every site is a fascinating mini-math challenge for both mental and physical exercises. Collect stamps to win kangaroo Prizes at each site!

Make 24

Sure Shot

Fast Finger

Tic-Tac-Toe

Math Bingo

Math Maze



#### Team Show

In the form of a team, students designed catwalk clothes around the topics of the Asia Camp of that year, showing the creativity and spirit of the team.

2024 Topics: Kangaroos and geometry

2025 Topics: Announced two weeks before the event



#### Math Bazaar

The topics will be announced two weeks before the curiosity exhibition. Students can show their mathematical knowledge through multimedia, drawings, models, posters.

Sample Topics: Symmetry and Reflection in Geometry through Papercutting Art

Solving the Tower of Hanoi with Programming

Fibonacci Sequence in Nature



# Math Kangaroo Asia Camp **Special Activities**

■ **Talent Show:** Welcome to show your unique charm and style



■ **Gala Party:** Dance with kangaroos with Island Dress.



# Math Kangaroo Asia Camp **Agenda**

Date	Morning 9:00-12:00	Afternoon 14:00-18:00	Evening 19:00-21:00
Jul. 13	Pickup at HAK / BAR / Bo'ao High-speed Railway Station, Arrive and Check in		
Jul. 14	Opening Ceremony and Guest Speeches Individual Round	Team Ice-breaking Math Carnival	/
Jul. 15	Team Round	Math Workshop 1 Math Workshop 2	Team Show
Jul. 16	Guts Round	Preparation for Math Bazaar	Talent Show + Gala Party
Jul. 17	Math Bazaar	Talent Show Closing Ceremony and Award Ceremony	/
Jul. 18	Tour Trip: Rainforest ecological conservation and natural exploration		
Jul. 19	Tour Trip: Rainforest ecological conservation and natural exploration	Departure, Return to the Airport(HAK,BAR)	

\*The schedule may be slightly adjusted according to student's group, with the final schedule subject to pre-trip arrangements.

# Math Kangaroo Asia Camp **Awards**

## Awards of Individual and Group Challenges

- Top Gold: Top 10%
- Gold Award: Top 30%
- SilverAward: Top 50%
- Bronze Award: Top 80%

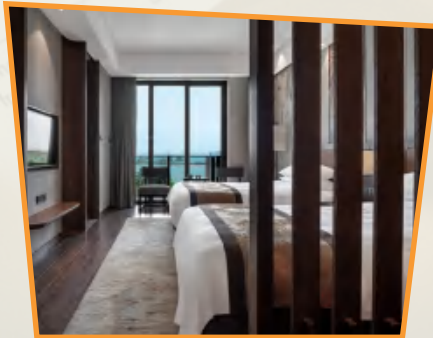
\* Individual Round, Team Round and Guts Round in each group will be awarded separately.

## Awards of Math Activities

- Math Star: Top 30% in Math Bazaar for Teams
  - Talent Show Award: Students selected for the Talent show
- \* Call for Talent Show links will open two weeks before registration closes.
- \* The prizes of the Math Carnival and Math Trail can be redeemed at the event.

# Math Kangaroo Asia Camp **Family Vacation Time**

■ Leisure Time at the Five-Star Resort Hotels (Boao Forum for Asia Hotel & Boao Forum for Asia Dongyu Island Hotel)







\* Math Kangaroo Asia Camp Location: Boao Forum for Asia, Hainan, China



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Scan to view the  
retrospective video