

For distribution to parents

Official Release for Academic Year 2022-23

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The Asian Mathematics Circuit

(PiAMC)

The Asian Math Circuit is the world's most comprehensive and advanced mathematics circuit for students of Grades 3-12. Conceived by piCirql's panel of mathematics practitioners and experts (from Columbia University, Trinity College, IIT Bombay, IIT Madras and Ecole Centrale Paris), the circuit promotes skill development and excellence in mathematics. Students get a standardized PiMAT (piCirql Math Achievement Test) score on completion of periodic assessments through Clash of Pi (series of online tests).

The Asian Math Circuit provides a framework for students to challenge themselves and progress beyond the boundaries of their school-prescribed academic syllabus. PiMAT scores are cumulative i.e. points earned are accrued year-on-year.

More than 1000 schools in Asia and over 300,000 students in 16 countries have adopted the circuit making it the most widely regarded mathematics excellence program in the region.

The curriculum-agnostic nature of the circuit makes it a truly universal platform to prove specialized mathematics proficiency. Access to granular data analytics combined with artificial intelligence gives students an independent and standardized metric to work towards.

Students receive the following benefits:

1. Opportunity to participate in Asia's biggest and most advanced mathematics league (schools from India, Japan, Malaysia, Singapore, UAE among others)
2. Secure standardized PiMAT score in Mathematics proving Math proficiency
3. Domain level certification to eligible students
4. Dedicated student portal with online test zone
5. Access to mock papers and detailed test analytics
6. Induction into Hall of Fame, Annual Awards, trophies and medals

Circuit Format

The circuit runs each month, with 15 rounds conducted over a 12 month period. The 5 domains (3 rounds each) cater to grade-appropriate disciplines of mathematics.

Topics in each domain vary by grade. Details can be found [here](#).

Grades 11 and 12 participate in a common test in the Professionals Leagues

The circuit calendar is released a year in advance and cannot be changed/rescheduled. The calendar is available [here](#)

Each domain comprises 3 rounds - TWO qualifiers and ONE final

Students are not penalized for missing a round. However, missing out on a final round will adversely affect the PiMAT score. The BEST qualifier score and the domain final score are taken into consideration to arrive at the Overall Domain Score.

Students are encouraged to participate as regularly as possible in order to maximize their chances of securing their highest possible PiMAT score.

Pedagogy & Rubric

Designed to promote rigorous mathematics within a competitive and stimulating framework, the purpose of the circuit is threefold:

1. **Rigor:** Grit and courage are the hallmarks of success in any discipline, and more so in mathematics. The circuit aims at providing a rigorous platform for students to benchmark themselves and to provide markers for their own progress
2. **Competition:** It is well established that healthy competition at the highest level is key to achieving excellence. Much like in a sports league, competition drives students to push their boundaries, work on their areas of difficulty and strive for higher order thinking.
3. **Outcome-oriented learning:** There is no better path to improvement than the positive feedback loop that is generated from periodic competition, assessment and progress based on actionable metrics

Skill development Focus

- First principles thinking
- Cross-disciplinary math applications
- Speed and Accuracy
- Familiarity with online testing
- Targeted practice with benchmarks
- Goal oriented customized learning based on data analytics
- Math excellence to pursue STEM and related fields

Contrary to the one-off testing and assessments that have become the norm in education, the circuit is designed to provide continuous feedback to students. Domain rounds zero in on granularity of concepts that form the basis of a solid foundation in mathematics.

SPACE Rubric

The SPACE Rubric specially developed by the circuit is based on a complex algorithm that evaluates the 5 most important metrics that form the building blocks for mathematics excellence. The parameters are defined as follows:

Speed - Total time taken to complete a finite set of questions correctly

Perseverance - Progress over a 12 month period

Accuracy - Error reduction achieved under exam conditions

Consistency - Reduction in variance of scores

Excellence - Commitment to working hard at achieving short-term goals

The [SPACE](#) rubric is widely regarded as the most comprehensive benchmark in mathematics in modern education.

Domain Details

Domains are designed to allow for natural progression over the 12 month circuit period. The circuit begins in April each year and gets progressively more challenging as the year progresses.

Domains are named after world famous mathematicians and are structured to ensure forward and backward linkages with the concepts being tested.

Grade-wise topic distribution by domain

Students may join at any time to avail 5 domains (12 months) from the date of subscription

Domains	Fermat	Euclid	Newton	Gauss	Euler
Grades 3-5	Arithmetic	Geometry & Measurements	Patterns, Puzzles & Arithmetic	All Topics	All Topics
Grade 6	Algebra & Arithmetic	Geometry & Measurements	Data Handling, Statistics, Algebra & Arithmetic	All Topics	All Topics
Grade 7	Algebra & Arithmetic	Geometry & Measurements	Data Handling, Statistics, Basic Probability, Algebra & Arithmetic	All Topics	All Topics
Grade 8	Algebra & Arithmetic	Geometry & Measurements	Data Handling, Statistics, Basic Probability, Algebra & Arithmetic	All Topics	All Topics
Grades 9-10	Algebra & Arithmetic	Geometry & Measurements & Co-ordinate Geometry	Statistics, Probability, Algebra & Trigonometry	All Topics	All Topics
Grades 11-12	Algebra	Functions, Limits & Co-ordinate Geometry	Pre-calculus & Differentiation	All Topics	All Topics

Calendar of Dates (2022-23)

The circuit calendar is released up to a year in advance. Given the format, there is no possibility of a retest or a rescheduling of dates. However, students always have the opportunity to take the next monthly round.

Circuit Dates for 2022-23

	Fermat	Euclid	Newton	Gauss	Euler
Qualifier 1	Apr 23-24 (2022)	Jun 18-19 (2022)	Aug 20-21 (2022)	Oct 15 -16 (2022)	Dec 17 - 18 (2022)
Qualifier 2	May 21 -22 (2022)	Jul 16-17 (2022)	Sep 17-18 (2022)	Nov 19 - 20 (2022)	Jan 21 - 22 (2023)
Final	Jun 4 (2022)	Aug 6 (2022)	Oct 1 (2022)	Dec 3 (2022)	Feb 4 (2023)

Important Notes:

- Qualifiers are conducted over TWO days (Saturday and Sunday). This typically falls on the third weekend of each month, with some exceptions. Please refer to the [calendar](#) for exact dates
- Final rounds are conducted on a SINGLE DAY
- If a student misses the round, there is NO possibility for rescheduling
- In case of technical difficulties that may arise during the test, students can reach the [Helpdesk](#) immediately
- There are provisions for a partial retest in case of dropped internet connectivity or other technical reasons
- The decision of the Review Committee is final and binding

PiMAT Scoring System

The Asian Math Circuit works in partnership with leading international and private schools in Asia to provide the education ecosystem with a viable and seamless methodology to assess and advance mathematics learning and skills development. Despite the ever-increasing importance of mathematics in the technology intensive world, it remains one of the hardest to assess.

The PiMAT score is a culmination of the most crucial skills that are prerequisites to achieving mathematics excellence.

There is no elimination and scores are additive. Superscoring is allowed on the circuit. This means that the BEST 3 Overall domain scores are included to arrive at the PiMAT score.

The Domain Score is calculated by cumulating the best score achieved during the qualifier rounds and the final score (in a 50:50 ratio)

Each Clash of Pi has a maximum of 25 questions to be answered in 15 minutes. Individual scores are calculated based on the following parameters:

- Each question carries 4 points
- Students may choose to skip questions
- The maximum score possible is *100 and there is no negative marking

*Based on a proprietary algorithm, bonus questions may appear for select students based on their performance during each test. Bonus questions carry extra points. In such cases, the maximum score may be greater than 100.

The bonus timer appears as a separate timer. The original test timer will be paused while the bonus question is attempted. Students who submit their answer to the bonus question within one minute, will be taken back to the original test or be timed out as the case may be.

For 2 students with the same scores, ties are broken based on time taken i.e. the student who has taken less time will get a higher rank.

Students earn proficiency badges based on Bonus questions that they are able to answer. The badges are as follows:

- **LEGEND BADGE:** This is the highest achievement possible on the circuit. Students who answer 4 or more bonus questions correctly are eligible
- **CHAMPION BADGE:** Students who answer 3 bonus questions correctly are eligible
- **EXPERT BADGE:** Students who answer 1 or 2 bonus questions correctly are eligible

Awards & Recognition

Students are awarded certificates after the completion of each domain. The certification levels are based on the minimum criteria set out by the circuit for each domain.

Domain Certification Levels:

1. International Circuit Rank (ICR) for Asia's Top 20 students in each grade
2. School Champion – Top 5 Ranks at the School level

Annual Awards

The circuit culminates in March each year by felicitating the top performers over the 12 month period. The Pioneer International Student Awards for Mathematics (PiSAM) winners are announced on the website in March and communications are sent out shortly after. The categories are as follows :

1. Certificate of Distinction - These are awarded to Hall of Fame students, who have displayed consistent and top notch performances right through the circuit. They are Asia's Top 20 students in each grade category
2. Certificate of Achievement - These are School Achievers who have ranked among the best performers at the school level
3. Certificate of Participation - All students who have participated in three or more domains in a yearly circuit

Distribution of Annual Awards

Awards gift boxes are distributed in liaison with schools (at no extra charge) or may be sent directly to the student home address (at an additional charge to cover courier costs).

Physical Awards are sent to the Hall of Fame (Asia Top 20) winners and School Achievers.

The above applies to all paid registrants and/or Affiliate Partner Schools who have satisfied their obligations

Participation Certificates are available for download on the student portal

The circuit provides students with the perfect platform to showcase their talent and to hone their mathematics skills. Certifications earned on the circuit along with PiMAT scores are greatly valued in institutions of higher learning. Students with piCirql certifications are well regarded as having solid mathematics skills with robust conceptual knowledge in the subject.

Registration Procedures

1. Click on your school link (as provided by your school) or go to www.picirql.com/register
 2. Fill in your details
 3. You will be taken to the payment page
 4. Use any one of the options – debit card, credit card, UPI, netbanking to complete your payment
 5. On payment of the registration fee, the student account gets created immediately
- (For registrations done through the school, accounts are created on receipt of the student details from the school coordinator)

Helpdesk

Any queries/ clarifications may be directed to the Circuit Support Team.

Phone/ WhatsApp: +91 9916516222 or +91 9986211600

Email: support@picirql.com or clashofpi@picirql.com

You can expect to receive a response within 24 hours.

Special provisions on live circuit dates

India/ South Asia: 8AM - 8PM IST

East Asia: 10 AM - 10 PM local time

Middle East: 7 AM - 7 PM local time

Process for Redressal of Issues

It is recommended to use WhatsApp to register any complaints, or report technical difficulties during the live circuit. The average response time on the live circuit dates is less than one hour during the times mentioned above.

In case of technical difficulties, internet outage or any other issues that may arise DURING the test, please contact the Helpdesk immediately.

Requests for retest can only be taken when the test is live. There is no possibility of addressing test-related issues beyond the live dates.

Re-evaluation Requests

Detailed test results are available on Analytics and Benchmarks on the student portal the day after the live test is completed

Please follow the standard protocol for re-evaluation requests.

All requests for re-evaluation need to be received **via email** BEFORE Tuesday after the test date. The Test Committee reviews the request and makes a final decision on Wednesday, after which final results are processed.

Please state the exact reason for re-evaluation. The Test Adjudication Committee will review your request and make a decision after verification.

Re-evaluation requests need to be sent to support@picirql.com along with the following details:

- Student Name and Login ID
- Reason for re-evaluation
- Proof if any

The decision of the Test Committee is final and binding.

Once final results are announced, no changes/ re-evaluations are entertained.