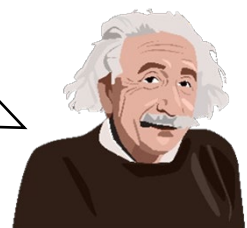




P4-P6

GEP/Advanced Mathematics Programme

Pure mathematics is,
in its way, the poetry
of logical ideas.



Albert Einstein

Programme Highlights



Comprehensive Coverage

Covers all the components that are tested in the PSLE Mathematics examination

- Paper 1
 - Booklet A: Multiple-choice
 - Booklet B: Short-answer
- Paper 2: Short-answer & Structured/Long-answer

Covers components specific to the MOE GEP Mathematics syllabus

- Investigative Mathematics
 - Deriving general formulae for arithmetic progressions
- Higher-order thinking questions
- Heuristics methods



Order of Topics

Topics are arranged in the same order as the MOE GEP Mathematics syllabus to facilitate revision and reinforcement of concepts.



Mad Maths (Enriched GEP Syllabus)

- At the end of every topic, students will be exposed to fascinating mathematical ideas which are not in the MOE syllabus but related to the topic they have just learnt. Examples of mathematical ideas that are explored include currency exchange strategy, Egyptian fractions, fractals and more.
- This fun and challenging exercise, which occasionally involves hands-on activities, is something motivated students always look forward to.



Spiral Approach

- Each new chapter starts with a recap of what students have learnt the previous year for the same topic. Students will complete a short diagnostic test so that the teacher can identify specific areas for improvement for individual students.
- The teacher will then explain the new concepts and demonstrate the new skills and techniques that students will need to learn for the topic.



P4-P6 GEP/Advanced Mathematics Programme

- Students will attempt questions on their own under the teacher's guidance. When the students have completed their work, the teacher will go through the answers and collect the students' work for marking.



Real-World Examples

- Students will find that the numbers used in the questions are based on real-world scenarios. (You will find the sources listed in the footnote of the worksheets.)
- This allows the teacher to help students relate the mathematical manipulations they have to perform on paper to the practical applications of mathematics in our lives.



Content and Skills-Based Learning

Students will be drilled on

- mathematical formulae and concepts
- methods for solving commonly-asked questions

Students will develop

- a logical and systematic approach in solving questions
- mental fortitude and tenacity critical to tackling non-routine questions



Rigorous Practice

- Topical revisions are conducted at regular intervals to refresh students' memory on what they have learnt and to continuously sharpen their mathematical skills.



Qualified GEP Mathematics Curriculum Team

- Our GEP Mathematics teachers are

Marcus Goh

- Ex-GEP Student (Rosyth-RI alumnus)
- Co-writer of GEP English curriculum
- Over 5 years of experience training GEP students

Sim Kian Ming

- Current MOE teacher
- Ex-editor of textbooks and assessment books at a major publishing house
- Mathematics Major & Maths Curriculum Writer at Joyous Learning



Frequently Asked Questions

How is the GEP/Advanced Mathematics programme different from the mainstream Mathematics programme?

In addition to covering the mainstream components that are tested in PSLE Mathematics, our GEP/Advanced Mathematics programme covers components that are unique to the MOE GEP Mathematics curriculum. Our stimulating questions are designed to fuel students' interest in mathematics and get them to think deeply about the application of mathematical concepts.

My child is not in the GEP but is strong in Mathematics. Can he/she join this programme?

Yes! The rigorous and stimulating coursework is meant to stimulate the interests of students who are advanced in Mathematics. Going beyond the PSLE syllabus, this programme will deepen a student's appreciation of the utility and beauty of Mathematics.

Will homework be given after every lesson?

Our lessons are not planned with homework in mind. All exercises are to be completed by students and gone through by teachers within each two-hour session. Homework is only assigned when a student is unable to complete what is meant to be completed within the lesson.

What components are covered in the programme?

The programme covers every component that is tested in the PSLE Mathematics paper as well as components covered in the P4-P6 MOE GEP Mathematics syllabus. We teach students formulae and methods that enable them to effectively solve challenging questions from GEP-specific topics.

Do you cover heuristics?

Yes, we do. In the context of Singapore mathematics, heuristics refer to strategies that are used to solve non-routine or complex questions. In addition to teaching various heuristics methods to solve different types of problems, our teachers encourage students to investigate think independently and come up with novel solutions on their own.





Registration Details

Commencement date: January
End date: End of November or just before the PSLE for P6
Duration per session: 2 hours
Programme fee: \$380 for every 4 lessons
Maximum class size: 9 students



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