

新加坡的國際 STEM 比賽
INTERNATIONAL STEM COMPETITIONS
FROM SINGAPORE

STEMCO

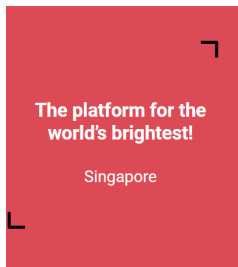
14 - 16/11/2025

SCIENCE 科學、PHYSICS 物理、
CHEMISTRY 化學、BIOLOGY 生物



46個國家及地區參與
每年吸引超過12000位學生及250間學校
全球賽將於新加坡舉行
參賽學生有機會踏足新加坡國立大學
PARTICIPATED BY 46+ COUNTRIES AND REGIONS
ANNUALLY INVOLVES 12,000+ STUDENTS AND
250 SCHOOLS
GLOBAL FINALS TO BE HELD IN SINGAPORE
STUDENTS WILL HAVE THE CHANCE TO VISIT THE
NATIONAL UNIVERSITY OF SINGAPORE (NUS)





Introduction

StemCo is an international platform from Singapore for STEM subject competitions for students from **grades 1 to 12 (Primary 1 to 6 and Secondary 1 to 6)**. With competitions held four times a year, students from **over 46 countries/regions and 250+ schools participate**, making it a diverse and enriching environment for young minds.

We have come to realize that the skills imparted by traditional olympiads are rapidly becoming irrelevant. In the age of abundant and easily accessible information, the modern individual must cultivate competencies such as critical and analytical thinking, time and resource management, soft skills, and creativity.

Without a doubt, competing is fun and makes learning more interesting. Whether one can best others or not, what is more important and difficult for future success is to compete with oneself. Therefore, we set out on a journey to create a unique international platform that enables students to develop apt competencies and continually best themselves through competitions.

We envision a community of organizers, coordinators, teachers, students, and their parents, who strive to embrace, embody, and promote the **“Best Yourself!”** spirit.

Participating 46 countries

Singapore, Angola, Azerbaijan, Bahrain, Bosnia and Herzegovina, Canada, Cambodia, Czech Republic, Germany, Gibraltar, Indonesia, Iran, Japan, Kazakhstan, Kyrgyzstan, South Korea, Malawi, Mexico, Mongolia, Nigeria, Myanmar, North Macedonia, Peru, Philippines, Romania, Russia, Serbia, South Africa, Taiwan, Tajikistan, Thailand, Turkey, Turkmenistan, Ukraine, United Arab Emirates, United Kingdom, The United States of America, Uzbekistan, Vietnam, etc



Why STEMCO?

No prior Olympiad training required

Our questions only require knowledge of the general school syllabus and are age-appropriate.

Compete Globally

Compete with peers all over the world.

Expertly Crafted Questions

All our questions are designed by putting emphasis on understanding and application of core concepts and

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Relevant and Trendy Topics

Using Minecraft, Youtuber or ChatGPT examples to issue the questions. Most of the pictures will be created by 3D.

STEMCO subjects and grade year levels (Science, Chemistry, Physics, Biology)

Grades	Math	Science	Chemistry	Physics	Biology
1-2	✓	✓			
3-4	✓	✓			
5-6	✓	✓			
7-8	✓	✓			
9-10	✓		✓	✓	✓
11-12	✓		✓	✓	✓

The StemCo Competition Information

StemCo competitions are divided into age categories:

- **Primary Junior (Grades 1 - 3, Primary 1-3)**
- **Primary Senior (Grades 4 - 6, Primary 4-6)**
- **Secondary Junior (Grades 7 - 9, Secondary 1-3)**
- **Secondary Senior (Grades 10 - 12, Secondary 4-6)**

Awards

Participating in STEMCO presents a great opportunity for schools to enrich the students by exposing them to creative, context-rich content. It also allows the school to celebrate students' achievements with **certificates (Gold, Silver, Bronze, and Participation)**, motivating students to learn further.



Competition format

- Open format: Online, access to information is encouraged
- Questions: 30 questions (20 for Primary Junior)
- Content: General school syllabus, no special training required
- English and Chinese questions will be provided
- Syllabus (English version only) : General school syllabus

Click this link to know more subject syllabus:

https://drive.google.com/drive/folders/1CJdEYK3T0ylxcz4_fVEMiDTy7In6VJ-c?usp=sharing

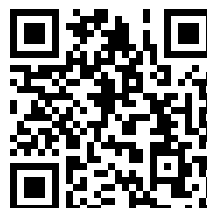


Introducing STEMCO video

<https://youtu.be/Wpkwds1qEd4?si=ank2YEC2iHUJ7Xkj>



Introducing StemCo



Sample papers (English version only)

Please scan QR code(s) or click the link to download to start your experience.

https://drive.google.com/drive/folders/1U9kAH8wPb1nGGOMVV40sUhUJxA9UR_bf?usp=sharing



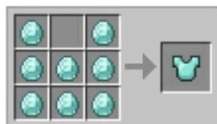
Sample Questions

Relevant and Trendy Topics : Using Minecraft, Youtuber or ChatGPD examples to issue the questions. Most of the pictures will be created by 3D.

Enrich students by exposing them to creative context-rich content with real life examples such as news, pop. culture, movies, games etc



StemCo (Primary Senior Math)

Robert wants to make a Chestplate in Minecraft:

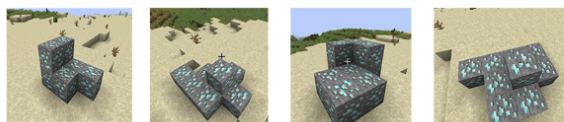


Context: Minecraft
Concept: Counting

Many children play minecraft and can relate to Math this way

1 diamond rock  has one 1 diamond 

Which picture does not have enough diamond rocks to craft a chestplate?



StemCo (Primary Junior Math)

Bob has a small YouTube channel where he makes videos about mathematics. Recently, he opened a Patreon account to ask for support from his viewers. The options available are:

- "Triangle" tier supporters pay Bob \$1 every month, and get a special mention in every video.
- "Square" tier supporters pay Bob \$4 every month, and get to see videos before everybody else.
- "Pentagon" tier supporters pay Bob \$9 every month, and get to request videos on topics they want to learn about.

Bob has 15 "Triangle" tier supporters, 7 "Square" tier supporters, and 1 "Pentagon" tier supporter. How much money does he earn from Patreon every month?

- A. \$52
- B. \$37
- C. \$59
- D. \$164

SUPPORT MY WORK AT



Context: Youtubers, Patreon
Concept: Arithmetic

Many children watch Youtube and know what is Patreon

StemCo (Secondary Junior Math)

ChatGPT is an artificial intelligence (AI) chatbot that quickly became known for its capabilities to respond to users with long and detailed answers.

Fiona has just learnt how to use ChatGPT, and as a student, she wants to use ChatGPT to write essays for school. However, ChatGPT is not fully reliable, and the essay that Fiona submits will have a 40% chance of scoring 100 marks, a 50% chance of scoring 90 marks, and a 10% chance of scoring 20 marks.

Fiona submits three essays. What is the chance that she scores a total of 140 marks?

- A. 1.2 %
- B. 2 %
- C. 4.8 %
- D. 10 %



StemCo (Secondary Senior Physics)

"Lazy Dog" was a weapon designed by the United States Air Force. It was a small projectile, weighing 20 g, designed to be dropped from aircraft. While it contained no explosive material, it would fall to the ground at high speed, causing severe damage to anything that it hit.

These were dropped in large amounts from aircraft that flew at an altitude of about 10 km. They hit the ground at speeds of 700 km/h, fast enough to punch through vehicles and thin armour.

During the fall, how much energy in each projectile is lost to air resistance?

- A. 1 200 J
- B. 750 J
- C. 3 000 J
- D. 460 J



Context: Historical weapons
Concept: Energy

Historical inventions are a great way to explore Physics

STEMCO Competition Participated Information

Individual candidate (Host by Miss Man International Education)

Competition date: 14,15 and 16 November 2025

Competition time: Candidates can choose anytime from 14,15 and 16 November 2025

Competition mode: Remote Protecting

Registration deadline for individual candidates: 1 November 2025

STEMCO participation fees

HK\$ 120 (MOP 125) with e-certificate per subject

HK\$150 (MOP 155) with hard copy certificate per subject

HK\$200 (MOP 205) with hard copy certificate and medal per subject

(Language: Chinese and English)

Singapore Global round in NUS (National University of Singapore): February 2026

Registration

School registration

Please complete the spreadsheet (click the link below or scan QR code to download) and please submit the spreadsheet by email hkoffice@missmaneducation.com / education@missmaneducation.com or by whatsapp +852 5918 5176 / +852 6714 3779

<https://docs.google.com/spreadsheets/d/12UDrWDeoP4pDyner9d0rFhzEWBQX5lda/edit?usp=sharing&ouid=111932205024297117687&rtpof=true&sd=true>



Individual registration

Complete e-form (scan QR code) or click the link below to finish payment

<https://forms.gle/cYesAtxZz7rxQxfEA>



Payment methods:

Cheque (For school use only)	Please write the cheque payable to: Miss Man International Education Limited Please post to the address below: Miss Man International Education Shop B31, Tung Wai Court, 3 Tsing Ling Path, Tuen Mun, N.T.
Bank Transfer (Hong Kong)	Account name: Miss Man International Education Limited Account number: 747-269835-838 (HSBC bank account) Please keep the bank slip and send by email hkoffice@missmaneducation.com or education@missmaneducation.com by WhatsApp +852 5918 5176 / +852 6714 3779
Bank Transfer (Macau)	(BNU Macau) Account name: Miss Man International Education Ltd Account number(HKD): 9019450137 / Account number(MOP): 9019450154 Please keep the bank slip and send by email info@missmaneducation.com or by WhatsApp +853 62085323 / +852 5918 5176/ +852 6714 3779
Mpay (Macau)	Mobile number: +853 62085323
Payme/FPS/Alipay (Hong Kong)	Mobile: +852 63327108

*All competition fees are non-refundable after registration.

Accessible on any device with a web browser and internet

Phone, iPad/Tablet, Computer/Laptop

For iPad and Tablet users (s), please prepare another device with a webcam function to log in Zoom for monitoring purposes. Organize in school or at home.

Stemco: see the Results with the global ranking

- ✧ See detailed awards, rankings (global, country, school), durations, scores, etc
- ✧ results in Excel to provide the database for further analysis
- ✧ Access past season data

Results

☐ Load trial competitions

Season Competitions Grade

	Name	Surname	Grade	Competition	Points	Award	Global ranking
	Caplan	Hg	10	2022 Spring BioCo Secondary Junior	9 / 40		126 / 135
	Marsicot	Guennathan	10	2022 Spring BioCo Secondary Junior	7 / 40		132 / 135
	Subragan	Kanang	10	2022 Spring BioCo Secondary Junior	28 / 40	SILVER	38 / 135
	Jenir	Bin	11	2022 Spring BioCo Secondary Senior	24 / 40	BRONZE	43 / 106
	Hyman	Park	11	2022 Spring BioCo Secondary Senior	11 / 40		101 / 106
	Shine	Tee	11	2022 Spring BioCo Secondary Senior	21 / 40	BRONZE	71 / 106
	Caplan	Hg	10	2022 Spring ChemiCo Secondary Junior	9 / 40		114 / 131
	Marsicot	Guennathan	10	2022 Spring ChemiCo Secondary Junior	13 / 40	MENTION	93 / 131
	Shen-Gelays	Brice Zuhard	11	2022 Spring ChemiCo Secondary Senior	16 / 40	BRONZE	33 / 78
	Jenir	Bin	11	2022 Spring ChemiCo Secondary Senior	12 / 40	BRONZE	52 / 78
	Caplan	Hg	10	2022 Spring MathematCo Secondary Junior	10 / 40	MENTION	189 / 236
	Marsicot	Guennathan	10	2022 Spring MathematCo Secondary Junior	10 / 40	MENTION	189 / 236

Provide more past questions

- ✧ All past questions are accessible to all students and teachers
- ✧ Practice past competition questions
- ✧ Sort by Age Category and Subject
- ✧ Sort by Concepts
- ✧ See answers and solutions
- ✧ See difficulty level based on real student statistics.

Terms and Conditions 受條款和細則約束:

1. If full entry payment is not received, student will NOT be allowed to sit for the test.
2. All entry fees are non-refundable.
3. For certificates and awards, any amendments, updates, reprints, etc. must be subject to an additional administrative fee of HK\$100
4. All certificates and/or medals will be issued to the participants one to two months after the results are announced

Contact us



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Website: www.missmaneducation.com

Facebook:

<https://www.facebook.com/missmanglobalcompetitions?mibextid=wwXlfr&mibextid=wwXlfr>