

HKASME JUN - 2025 MAIL PACK

< A charitable institution since 15 May 2010 under the Section 88 of the IR Ordinance. >

< Serving ALL teachers since 1964 ... >



.. >>* (since 1964)... – celebration continues !!! 😊😊😊 > Intn'l Year of

2024-25 (IYC) => Milking.. :: >>



>>[*] ... Fun Facts – check details inside... ..

The United Nations has declared 2024 the International Year Of Camelids (IYC). The decision has been taken to highlight the significant importance of camelids in the lives of people across the world.

... Check for more at <https://www.fao.org/camelids-2024/en> still working 2025 ... !!!

Items in this pack:

- ◆ **Council News & HKASME Exhibition at HK Convention & Exhibition Centre 2025** – 😊 Prepare for 61st ... 😊 P.1-5
- ◆ **AGM News** – P.6-10
- ◆ **“STEAM Corner”** - (ST-1) HKU AIM Lab (ST-2) Environmental Day (5th June) – 2025 theme: “Beat Plastic Pollution” P.11
- ◆ **Science News** – (S-1) World Milk Day (1st June) (S-2) IYC 2024-25 – Fun Facts of Camels... P.12-13
- ◆ **Chemistry News** – (C-1) Chemistry and Milk (World Milk Day)... (C-2) **Plan your drawing instruction** – the level of spatial concept in Chem learning... (C-3) Plan for summer project – milk or plastic combat ??... P.14-18
- ◆ **Biology News** – (B-1) Links/merge of different world days with teaching or summer work P.19
- ◆ **Maths News** – P.20-21
- ◆ **ETV News** – P.22
- ◆ **Proxy & Nomination Form** – P.23-24
- ◆ **Membership Form** – P.25-28
- ◆ **Calling for Articles of HKASME Journal (Volume 41)** – P.29
- ◆ **Resources Collection** -- ... “Element Cubes”! “Element Packs”! New “Periodic Table items” P.30-22



-- WORLD MILK Day (1st -June)!

>> What's milk? Why need to focus attention on the awareness of the dairy parts? What / how could it help in our teaching and learning?

> Living in a pandemic means we have had to accept changes to many aspects of our daily routines

AND ISSUES of COVID19 still lingering... – including learning & teaching!



Council News

😊 Prepare for 61st ... 😊

Towards the end of the school year 2024-25, most are busy in rounding up your teaching (and learning [for both teachers and students]). No matter the results from the year's endeavor is satisfactory or not, there must be things that we should review and plan for change in the new year. Amongst the overcrowding push of AI into all sectors, have we rechecked what's the real needs of our students. Some items from last mailpack have already initiated different perspectives for our teaching and learning. One is about “drawing” (referring to “manual drawings”) instead of “AI” videos – because our examinations still focus on “paper work”. Another is the awareness of “diversity” (“biodiversity” is one sector) that we need for developing sustainability in all aspects of our life. Would you plan your summer work for your students to strengthen their development and learning in the coming years. We could try out some starting from last mailpack. Check for more hints in this and coming ones.

About the Association's summer activities, the usual ones should be our AGM and the Paper Reviews. The AGM this year could bring some new elements for all – check the date and come to join how we sustain for more than 60 years! Similar for the Paper Reviews.

Another usual activity towards the year-end is the record and sustaining hard work of the Association – your contribution to the Association's Teachers' Journal. Over the 60 years,

there had been some hard times that we missed the yearly publication. Amongst the so many local teachers' associations, we are lucky that we could still maintain our yearly publication. We hope we could have your contribution this year – or may be next if your are too busy now.

For new members, we would like to remind you to get ready to renew your membership towards the end of August. Other than completing this special term of our 60th, we need also to think about plans for the coming 61st. Meanwhile, we look forward to the new objectives of different subject areas or to grasp the whole new curriculum as exemplified by the new Primary Science and Humanities Curriculum.

Again, we would like to thank our dedicated colleagues in helping and supporting different activities in the hard times.

Afterall, just to remind teachers about the ordering of references and tools from the Office. We must alert all teachers that delivery time for orders will be much longer than before due to the global viral impact on logistics and tariff affairs. Hence, if you want to place orders for certain materials, please be patient.

For latest updates (including cancellation) of the SME activities, the usual channel is our web: www.hkasme.org or phone the Office (23330096, 23337602) – we still open as usual.



Stay safe and be prepared for coming outburst (flu of different strains...)!

The Council

June 2025

< *The Office will stay operation EXCEPT for serious incidence!* >

* Thanks for all donations in the past 60 years that support the Association to this day.

Donations are welcome, either for specific event or for general support. The HKASME is a charitable organization under the section 88.

... *Marching towards the 61st* ...>



HKASME Exhibition at Hong Kong Convention and

Exhibition Centre 2025

Expo Venue

Hall 3B-E,

Hong Kong Convention and Exhibition Centre,

1 Expo Drive, Wan Chai, Hong Kong

Expo Date & Time

2025-07-02 (Wed) : 10am-6pm

2025-07-03 (Thu) : 10am-6pm

2025-07-04 (Fri) : 10am-5pm

ALL ARE WELCOME!

Learning & Teaching Expo 2025
學與教博覽2025
Hong Kong Convention & Exhibition Centre | 2-4 July 2025

REGISTER NOW & SEE YOU IN JULY!
立即登記 · 7月會展見!

Organised by 主辦: SCC
Presented by 呈獻: medcity
Supported by 支持機構: Education Bureau
The Government of the Hong Kong Special Administrative Region of the People's Republic of China

Register Now 立即登記免費入場 | # www.ltexpo.org | Follow Us 關注我們 | LTEXPOHK



Update News at <http://www.icasonline.net/>

(ICASE = "International Council of Associations for Science Education". **HKASME is one of the founding member of ICASE.**)

>> **NEW:: Preliminary** announcement: 8th ICASE World Conference on science and technology education, **22-25 June 2026!** ** Science education is for everyone! **

>> NEW resource can be downloaded at ... <http://www.icasonline.net/coronavirus.pdf>
"GUIDANCE on active learning at HOME" !!! <<< Grasp your copy NOW!

>>>=====<<<

**** Up-coming Events of HKASME (2025) ****

HKASME Coming Issues ... due to Impact of Coronavirus Infection ... may have modifications..

>> Always check updated news at www.hkasme.org

Activity / Issue	Current situation	Remarks
NEW 2024 Chemistry DSE Paper Review - _	Arranging venues and date.	Check for details at www.hkasme.org
NEW AMC Maths Competition	Will be held in own school in July. Check details online.	Application due by ____ . Check for details & apply at www.hkasme.org
NEW ICQ Chemistry Quiz	Application closed. Will be held in own school in Jun-July.	Check for details & apply at www.hkasme.org
Sales of equipment & references	Office still operate within our limits.	Phone (23330096, 23337602) ++ ONLINE data & order
AGM (2025)--	Arranging venues and date.	Check details online (www.hkasme.org)
Mock Exams for 2026 - various subjects	Planning	Check details online (www.hkasme.org)

> The spread of Coronavirus is changing and fluctuating, no one is sure of anything in the future. In case that the activities have to be cancelled, the most update information will be posted via our webpage:

www.hkasme.org.

>>> For some routine activities, regret that they have to be cancelled or delayed!!! If you have any suggestion that they could be handled safely, please forward to our managers for consideration in coming activities!!!

➔ Resources for New Year (2025-26)- "Element cubes", "metal packages", New "Periodic Table" items !!! ➔ Check details at end of this Mailpack. --- Ordering References / Materials -->> phone up the Office for order & enquiries. Check update catalogue at www.

>>>=====<<<

AGM News

NOTICE OF FORTY-TWO ANNUAL GENERAL MEETING OF THE HONG KONG ASSOCIATION FOR SCIENCE AND MATHEMATICS EDUCATION LIMITED

NOTICE IS HEREBY GIVEN that the Forty-two Annual General Meeting of the above Company will be held at Sai Kung at 9:30 a.m. – 4:00 p.m. on 28 June 2025 (Saturday), when the following ordinary business will be transacted, viz:

1. To adopt the minutes of the previous Annual General Meeting
2. To receive and adopt the Chairman's report
3. To receive and adopt the Hon Treasurer's report
4. To elect members of the Council
5. To appoint the Hon. Legal Advisor
6. To appoint the Hon. Auditor
7. Any other business

By order of the Council

Mr. Lee Wai Hon

Hon. Secretary

Dated 20th May, 2025.

Remarked: please note that new council members will bring vitality into the next Council. You are earnestly requested to make nominations and make yourself present (though a proxy may also serve the purpose) in support of your nominee.



Hong Kong Association for Science
and Mathematics Education
香港數理教育學會

42th Annual General Meeting cum Visit

第四十二屆周年會員大會暨考察

GENERAL INFORMATION

Date: Jun 28, 2025 (Sat)
Time: 9:30 a.m. - 4 p.m.
Venue: Sai Kung

Event:

1. A walk of Fairy Path on Sharp Island
2. Annual General Meeting with Seafood Lunch
3. Yim Tin Tsai (Little Salt Pan) Visit

Fee (after subsidized by HKASME):
\$200 (member);
\$300 (non-member)

Don't miss out!
Register now~



截止日期: 6月12日(四)

AGENDA

1. To adopt the minutes of the previous Annual General Meeting
2. To receive and adopt the Chairman's report
3. To receive and adopt the Hon. Treasurer's report
4. To elect members of the Council
5. To appoint the Hon. Legal Advisor
6. To appoint the Hon. Auditor
7. Any other business

HIGHLIGHT

集合

9:30 a.m.
西貢慈民路西貢海濱公園
火山探知館



周年會員大會

西貢海鮮午餐
及
周年會員大會同步進行



橫咀島

踏上天使之路



鹽田梓

參觀鹽田梓
及
進行科學考察活動

CONTACT US

Contact no.: 2888 0096, 2888 7602
Fax no.: 2888 8855

Office Hours: Monday - Friday 10 a.m. - 1:00 p.m.; 2:00 p.m. - 5:00 p.m.

Brief Introduction of Nominee

for the Election of 2025-2026 HKASME Council Members

Name: LI Chi-man, Jimmy.

Related Experiences:

- Presently a secondary school principal
- A secondary school Science and Mathematics education practitioners for nearly 30 years
- Having served as a Biology and General Science Subject Committee member, the Biology Convenor and Council Member and Honorary Secretary, Vice-chairman and Chairman of HKASME
- Having once worked in Science Education Section, Education Bureau as a Seconded Teacher
- Having served as HKDSE Biology SBA District Coordinator
- Having served as EDB Biology Textbook Committee
- Having served as Chairman of Steering Committee of Hong Kong Budding Scientist Award and International Junior Science Olympiad (Hong Kong Committee)
- Having served as member of Steering Committee of International Biology Olympiad (Hong Kong Committee)
- Having served as committee member of HK STEM Education Alliance
- Having been participating in various science related research projects like 'Enhancing senior secondary students' understanding of nature of science and the interconnection between science, technology, society and environment (STSE) through innovative teaching and learning activities', 'Infusing scientific inquiry and nature of science into the learning and teaching of New Senior Secondary (NSS) Biology Curriculum', etc.
- Having actively participated in judging work in various local science activities like Hong Kong Student Science Project Competition, 『常識百搭』創新科學與環境探究比賽, etc.
- Having been involved in various experience sharing sessions, as well as some science teachers' professional development programs
- Having served as member of Steering Committee of PISA (Hong Kong Committee)
- Having served as member of Assessment Working Group of CEATE Steering Committee
- Having been serving as Guest Lecturer in HKU and EdU

Main Contribution Proceeding and/or Thoughts :

- Organizing science competitions to foster the learning and teaching moral of science and mathematics.
- Building collaborative partnership among teachers, EDB, HKEAA, tertiary institutions and other professional bodies to facilitate learning and teaching of

science and mathematics.

- With involvement of other council members, discuss and look for different directions for our Association's development.

Name :

- Mui Chi Man

Related Experiences:

- Member of Solicitors Disciplinary Tribunal Panel
- Member of the Panel of Film Censorship Advisers
- President, Hong Kong Competence Education Research Institute
- Vice-chairman of HKASME
- Adviser of The Hong Kong Association for Computer Education
- Member of The Chief Executive's Award for Teaching Excellence Teachers Association
- Council Member, Hong Kong and Shenzhen STEM Curriculum Development Institute

Contribution Desired and/or Thoughts:

Mr Mui Chi Man has dozen years of teaching experience in ICT and Maths in both secondary and tertiary levels. He is currently the principal in Ju Ching Chu Secondary School (Yuen Long). He has experience in developing e-learning systems including game-based learning and cloud-computing. Mr Mui has participated actively in the educational sector and won different teaching Award. Mr Mui has presented seminars to parents, educators, and professionals throughout the world including Singapore, Shanghai and Hong Kong. A frequent guest on national radio and television, Mr Mui has appeared on Radio Television Hong Kong (RTHK), TVB and ViuTV. He has been a columnist for education magazine and published articles related to IT in education, research method and innovative learning.

簡介

姓名： 梁俊傑 LEUNG Chun-kit, Sam

服務單位： 青年會書院

職位： 助理校長

科技教育學習領域統籌教師

電腦科主任

STEAM 教育小組統籌教師

電子學習統籌教師

資訊科技組主管

學校發展組統籌

政府： 2021-23 & 2023-25 課程發展議會

- 學習資源及支援委員會成員

學界組織： 香港數理教育學會 - 科技組主席 及 義務內務

香港電腦教育協會 - Professional Member

AITLE 資訊科技教育領袖協會 - 會員

香港副校長會 - 會員

教育局： 2023 至 2024 年度

Data Literacy Study Group in Mathematics 成員

2020 至 2023 年度

e-Assessment Study Group in Mathematics 成員

2018 至 2021 年度

資訊科技教育卓越中心借調老師

香港教育城： 學與教博覽 2024 & 2025 Programme Committee



懇請各會員投我神聖一票！隨時歡迎給予意見及指導！謝謝！

*** << **STEAM Corner** >> ***



◆ **(ST-1) ** HKU AIM Lab – for teachers ...**



HKU proactively promotes "AI

Education for All" and has seamlessly integrated AI into teaching and learning efforts

across all disciplines. The University is committed to playing a leading role in supporting primary and secondary schools in implementing AI curriculum and acquiring innovative capacities

.... Driven by the vision of "AI for All", this initiative empowers teachers with the latest AI insights, enhancing the implementation of STEAM education in local schools

Check for More in https://www.hku.hk/press/news_detail_28390.html.

(ST-2) ** International Environment Day (5-June) ... 2025 Theme: Combat Plastic Pollution

This is not a new idea. How much had we gone through since last environment day? Or, how much does your School go through some sustainable events to raise the awareness of students' environmental issues? How could STEAM elements be introduced via the promotion of environmental events?

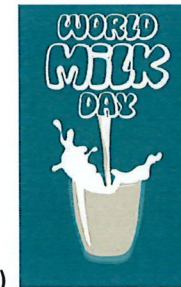
Check for more at :

- Theme of 2025: Beat Plastic Pollution ...
- <https://www.worldenvironmentday.global/2025-updates#:~:text=Jeju%20Province%20in%20the%20Republic,Environment%20Day%202025%20official%20celebrations>.
- .. World Econ Forum host the thematic exploration to handle plastic pollution.
- <https://www.weforum.org/stories/2025/06/world-environment-day-p>

[lastic-pollution-solutions/](https://www.weforum.org/stories/2025/06/world-environment-day-p)



**** SCIENCE NEWS ** --**



(S-1) World MILK Day (1st June)

https://en.wikipedia.org/wiki/World_Milk_Day

*The Day provides an opportunity to focus attention on milk and raise awareness of dairy's part in healthy diets, responsible food production, and supporting livelihoods and communities. This is supported by FAO data showing that more than one billion people's livelihoods are supported by the dairy sector and that dairy is consumed by more than six billion people globally. ****>> Check more details in other Corners!*****

Further extension of our learning could be extended to the "Dairy sector". The dairy sector stands at a critical crossroads —balancing its crucial role in nutrition, rural livelihoods, and food security with the urgent demands of sustainability and climate resilience.

How much dairy intake should be promoted for general health? ... (3 cups/day)!



(S-3) IYC-2024-25 >

Actions still continue...!!!

(IYC) = the International Year Of Camelids ... Relevant countries with continual flourishing of keeping camels trading (since 4000 years ago) are Jordan, Tunisia and India.

More interesting facts about camels (cont'd from last pack):

- >4. Camels can completely shut their nostrils during sandstorms.
- >5. Camels have thick pads of skin on their chest and knees, and hence can comfortably sit in very hot sand.

>6. Their humps let them store up to 80 pounds of fat which they can live off for weeks and even months!

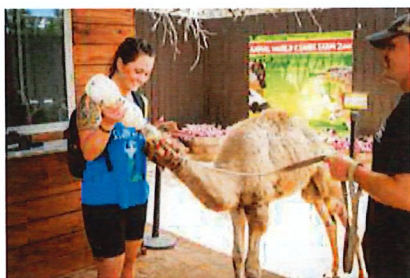


(... MORE in coming mailpack..)

From the above facts, it shows how this "historical" animal have shown how to adapt to their very special environment to survive through the long years.

- > Ask your students to highlight the structures on a diagram of camel ... and .. even could ask them to make a model for exhibiting very interesting mode of living in their usual breeding grounds.

The International Year of Camelids 2024 aims to build awareness of the untapped potential of camelids and to call for increased investment in the camelid sector, advocating for greater research, capacity development and the use of innovative practices and technologies. Events still going on through 2025 -- showing that once a useful idea has been initiated, more events would come.... !!! You could start on something small within your own School!!!!...



..... For more details, check ..

<https://www.fao.org> > carmelids-2024 --> still working through 2025!!!

** CHEMISTRY NEWS **

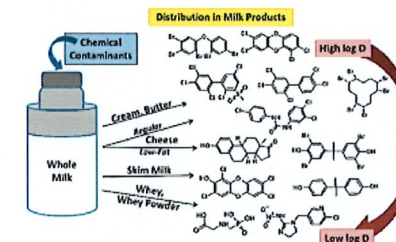
(C-1) World Milk Day & Chemistry -

- > Milk is a special chemical ! – is it a compound or mixture?
- > Does all milk has the same composition? Yes / No?

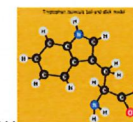


Parameter	Mean
Total solids (%)	15.00
Protein (%)	3.90
Fat (%)	4.70
Ash (%)	1.20
Lactose (%)	4.80
pH	6.60
Titratable acidity (%)	0.18
Ca ²⁺ (mg/100 g)	130.00
Fe ²⁺ (mg/100 g)	0.60
PO ₄ ³⁻ (mg/100 g)	80.00
Ascorbic acid (mg/100 g)	1.10

- > Composition of Milk -- substances inside???. Do you expect so much ...
- > Can you state some physical and chemical properties of milk? _____



- > When will the molecules exist in milk? ...
- > Could milk be linked to "plastics"?... (Answer in next MailPack... !!!)



(C-2) Chemistry & Drawings : ...

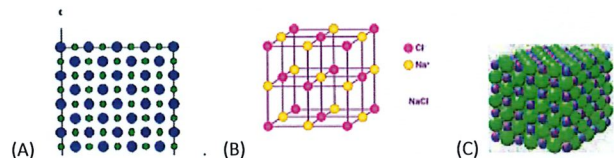
Is this a 1D / 2D / 3D drawing?



Fig 1:
prefer?



Fig 2: ... 1D, 2D, 3D? which do you



Which do you prefer for... ?

As mentioned in "Science News Corner" in last mailpack, drawing is an important skill for science learning – especially for some chemistry topics. However, have you ever rely on computer-generated diagrams / software packages instead of "teaching" students how to draw them (manually on PAPER)?! If we think deeply about why questions are asking for such skills / techniques in the assessments; we do really need to teach our students how to draw them well and shape the concepts in their minds so as to link up the abstract with the visual experiences (e.g. the structure of NaCl vs the formation of such crystal in lab experiments).

The figures (A), (B) and (C) above clearly shows the different levels of structures of NaCl that we eat everyday. They are used for various circumstances – e.g. how salt disappears when they dissolve in water... which structure would you use to present such processes.

If you require your students to draw clearly what's in their minds, that would surely enhance their level of learning with visual and abstract concepts matched – and that's part of learning in chemistry. Would you try to review your teaching this Summer and plan a more detail package for your chemistry classes at different level.

(... to be cont'd in coming mailpack.)

(C-2) Chemistry & Environmental Day 2025 – "Beat Plastic Pollution"

- Surely you could "celebrate" this everyday and it is quite an important task amongst our environmental combat activity for the World.
- Other than matching with what the experts suggest for the 2025 theme, teachers could devise their own projects (or minor tasks) for your students – merging what they should learn and practice in our daily life.
- Even more, you could present this Summer activity as a "competition" – if you have supplementary classes, you could let everyone cheer up amongst your teaching. Or, this could be a final test presentation after the Summer and let them compete at the beginning of Sept. next School Year (2025-26)!!!

... If you have any ideas and / or actual activities done related to this topic; we invite your sharing here! Just send us an email (enquiry@hkasme.org)

H K Chemistry Olympiad for Secondary Schools (2024-25)

Final Round Programme- Chemical Detective

& Prize Presentation for 8th Digi-Science Competition

Date: June 28, 2025 (Sat.)

Time: 8:30 a.m. – 12:00noon

Venue: G/F., School Hall, Maryknoll Fathers' School (Secondary Section), 2 To Yuen Street, Tai Hang Tung, Kowloon. (Kowloon Tong Station MTR exit C2)

(瑪利諾神父教會學校 (中學部) 地下禮堂, 九龍大坑東桃源街 2 號, 九龍塘港鐵站 C2 出口)

Application Deadline: 23 Jun 2025 (Mon)

Enquiry Tel: 2333-0096

Related News & Updates: www.hkasme.org

Programme:

Online Application



Time	Event
8:30–9:00	Judge Meeting& Registration
9:00–9:05	Opening & Project Briefing
	Max. 7 mins for each team, 3 mins for video clip, followed by Question and Answer session from judges and audience (5-6 mins)
9:05–9:20	12-Christian Alliance S C Chan Memorial College "Unveiling Caffeine Risks:Using UV-VIS Spectroscopy and Iodometric Back Titration to Assess Caffeine Content in Coffee and Pre-workout Drinks"
9:20–9:35	22B-G.T. (Ellen Yeung) College Alginate-based bead for heavy metal ions removal
9:35–9:50	3-Carmel Pak U Secondary School Chemical Detective: The application of FTIR Spectrum II to confirm the fermentation of chitin to chitosan by a chitin deacetylase (designed form <i>Aspergillus nidulans</i>) expressed by <i>E.Coli</i> BL21 and its application as an anti-bacterial coating in making rouxii KFC Express Bio-disposables
9:50–10:05	9-St. Paul's Convent School EcoSense
10:05–10:15	Break

10:15-10:30	30B-Chinese International School Investigating the UV Protection Efficiency of Various Zin Oxide and Titanium Dioxide Ratios in Sunscreen Formulations
10:35 –10:50	2-Nord Anglia International School Hong Kong Development of a Quantitative Method for Urea Detection in Milk and the Establishment of a Calibration Curve
10:50 –11:05	22A-G.T. (Ellen Yeung) College Silver-infused tea for selective heavy metal detection with selected types of tea and capping agent
11:05 – 11:20	11A-The Independent Schools Foundation Academy The Sweet Truth: Evaluating Honey Quality for Adulteration
11:20 –11:40	I. HKChO Judge Meeting, II. Video Entries Showing of Digi-Science (Junior & Senior Forms) & Instant Polling for Most Popular Video III. Prize Presentation for Champion, 1 st Runner-up, 2 nd Runner-up, Merit Awards and the Most Popular Video for 2024-2025 Digi-Science& Group photo of Digi-Science
11:40 – 11:50	Prize Presentation for Champion, 1 st Runner-up, 2 nd Runner-up, Honour Award and the Best Presenter for 26th HKChO.
11:50 – 12:00	Group Photos of HKChO & Digi-Science teachers & students

Remarks:

- 8 teams were selected from the Preliminary Session.
- Each team is expected to use the language used in writing up their reports during the briefing and judging sessions.
- Judging criteria for the oral presentation:(a) whether the project is relevant to the theme of the Olympiad,(b)whether the chemical principles described are sound and whether the methods used are reliable,(c)whether the project describes a novel but significant experience and can be used or applied in other areas(d) whether the presentation is clear and convincing, and(e) other criteria as deemed appropriate by the panel of judges.

[Scan the following QR Code for the Winning Teams in Previous Years](#)



香港檢測和認證局

**The Hong Kong
Council for Testing
and Certification**

**“Digi-Science” Video Production
Competition for H.K. Secondary Schools
2024-2025**

**Testing Science –
Testing Science • Batteries
“檢測科學 • 電池”**



香港數理教育學會

HKASME

Prize Presentation Ceremony

Date: June 28, 2025 (Sat.)

Time: 11:20 a.m. – 11:40a.m.

Venue: G/F., School Hall, Maryknoll Fathers' School (Secondary Section),
2 To Yuen Street, Tai Hang Tung, Kowloon. (Kowloon Tong Station MTR exit C2)

(瑪利諾神父教會學校 (中學部) 地下禮堂' 九龍大坑東桃源街 2 號, 九龍塘港鐵站 C2 出口)

Award Presenter

Dr Lesly LAM

Mr Robert LUI

Hong Kong Council for Testing and Certification

Hong Kong Council for Testing and Certification

香港檢測和認證局

香港檢測和認證局

List of the Finalists

Junior Secondary Division	Senior Secondary Division
(J01)- KOWLOON TRUE LIGHT SCHOOL Title of Video: Comparing the Efficiencies of Microbial Fuels with Different Food Wastes	(S01)- KOWLOON TRUE LIGHT SCHOOL Title of Video: Power Up With Homegrown Energy
(J02)- TUEN MUN GOVERNMENT SECONDARY SCHOOL Title of Video: "究竟 AA 鹼性電池有幾「命硬」?"	(S06)- ST. PAUL'S CONVENT SCHOOL Title of Video: Voltage Voyage at the Kitchen - Powering Up Through House Hold Materials
(J06)- HON WAH COLLEGE Title of Video: "Charge It Up: The Surprising Voltage of Everyday Fruit	(S08)- TWGHS KAP YAN DIRECTORS' COLLEGE Title of Video: Thermal currents and Battery Blues: Unraveling the Impact of Temperature on Voltage and Resistance in Power Cells
(J08)- PLK CHOI KAI YAU SCHOOL Title of Video: Temperature vs Battery, How would a zinc-manganese battery fare against differing temperatures?	(S09)- TWGHS KAP YAN DIRECTORS' COLLEGE Title of Video: Battery Electrolytes vs. Green Beans: The Hidden Environmental Threat
(J10)- BUDDHIST SIN TAK COLLEGE Title of Video: Reviving Energy: A Comparative Study of Batteries Made from Recycled Metals and Brand-New Metals	(S12)- ST. PAUL'S CO-EDUCATIONAL COLLEGE Title of Video: The Dark Side of Power-Unveiling the Impact of Lead-Acid Batteries on Plant Life

Awards

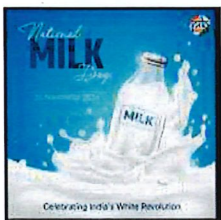
Champion team	1st runner up team	2nd runner up team	Merit teams (2 awards)
One trophy & book coupons worth \$1,000	One trophy & book coupons worth \$800	One trophy & book coupons worth \$600	One award certificate & book coupons worth \$300

Video clips of the
winning teams



Biology News

(B-1) Links / merge of different world days with teaching or Summer tasks ...



<< How could they be treated? ...

Other than celebrating the International Days one by one, teachers could take the chance to merge / link up different International Days. The two world days mentioned in this Pack could be linked up in suitable section(s) and / or teaching point in your lessons or as a special project task(s) for your students' Summer learning – Or, even devise a competition for groups to collaborate in their learning.

Below are just some suggestions:

- How would you promote milk and plastics vs. health in our daily life?
- How do milk and plastics go through our body if ingested?
- Compare the general properties of milk and plastics.
- Which is biodegradable, milk or plastics? Why do they behave differently ??
- You can surely think about different methods of linking up the above or other “similar” International themes!!! Await your sharing with us – email your activities to enquiry@hkasme.org

.....

“ Protecting Biodiversity, Protecting Life”

Maths News

數學桌遊《變換大作戰》挑戰賽 2025

比賽章程

比賽宗旨

1. 鼓勵學生透過桌遊提升數學邏輯思維能力和解題技巧。
2. 以趣味性教學方式激發學生對數學的興趣和學習動力。

比賽日期及地點

2025年7月17日 (星期四) 下午 2:00 - 5:00

元朗公立中學校友會鄧兆棠中學 (天水圍西鐵站B出口)

參賽資格

1. 參賽對象為全港初中學生 (中一至中三)。
2. 每間學校最多可派出 4 名學生參賽。
3. 比賽以個人形式進行, 每場比賽由 4 名參賽者同場競技, 直至產生一位勝出者。

比賽費用

1. 每間學校需繳交報名費 \$100, 即使參賽人數不足 4 人, 亦需繳交全額費用。
2. 繳費方式為比賽當天以現金支付。
3. 每間學校將獲贈一幅桌遊《變換大作戰》作為備戰之用。

比賽形式及計分方式

1. 比賽規模: 比賽以淘汰賽形式進行, 直至決出冠軍。
2. 每場比賽有 4 名參賽者參與, 每場比賽將有一位勝出者晉級下一輪比賽。
3. 比賽時長為 每場 10 至 15 分鐘 (具體時間依據參賽者完成情況而定)。
4. 最終四強將進行決賽, 決出冠、亞、季及殿軍。

報名截止日期

2025年6月30日(星期五)

報名辦法

請接連結填寫報名表格

<https://forms.gle/FnLQoegBHdSGb9fVA>; 或掃描右側二維碼



遊戲玩法

可參考說明書或

<https://www.youtube.com/watch?v=IR8ucRbRxew&t=113s> ; 或

掃描右側二維碼



>>===== <<<

數學在 STEAM 世界中的應用」傑出學人講座系列 — 「數學與我何關？」

嶺南大學副校長陳漢夫教授是一位國際知名學者，除一直致力於數值和計算數學的研究外，亦在圖像處理和金融數學等數學應用的領域發表了很多重要的研究論文和書籍。在此講座中，陳教授將基於他在數值線性代數與圖像處理方面的廣泛研究，介紹這些技術在重塑太空衛星和自動駕駛等方面所具有的變革潛力，並且幫助參加者了解在現今 AI 世代，數學可以如何影響社會及改變世界。

日期：2025 年 7 月 7 日（星期一）

時間：下午 2:30 - 5:15

場地：九龍油麻地窩打老道 56 號九龍華仁書院禮堂

名額：300

（宣傳短片）<https://www.youtube.com/watch?v=F6Sz1KU4P6o>

報名資料:

<https://tcs.edb.gov.hk/tcs/admin/courses/previewCourse/forPortal.htm?courseId=CSD020250189&lang=zh>

教育多媒體每月速遞（2025年6月號）

REPLY SLIP: Annual General Meeting (AGM) 2025

To: Hong Kong Association for Science and Mathematics Education (HKASME)

Office 14, 1/F, Po On Court, 1-15 Po On Road, Kowloon.

(Fax no. +852 2333 3355)

I *shall / shall not (* Delete as inappropriate) attend the following programs ((M'ship\$200/Non M'ship\$300) on 28th June, 2025 (Sat) at Sai Kung.

Program	Time
HKASME AGM Cum Visit	9:30 am - 4:00 pm

Name: _____ Membership No. _____
(please print, surname first)

Signed: _____ Date: _____

(IF YOU CANNOT ATTEND THE AGM, PLEASE ASK YOUR REPRESENTATIVE TO ATTEND ON YOUR BEHALF AND SEND IN THE PROXY FORM BELOW ON OR BEFORE 24TH JUNE, 2025. THANK YOU.)

PROXY FORM

To: Hong Kong Association for Science and Mathematics Education (HKASME)

(N.B. This Proxy Form must be submitted to the Hon. Secretary at least 3 days before the scheduled time of the AGM, i.e. 24th June, 2025.)

I, _____, Membership No.: _____ of
(Name of Appointer, surname first)

_____, being a member of HKASME,
(Address of Appointer)

hereby appoint: _____, Membership No.: _____ of
(Name of Appointee, surname first)

_____, as my proxy to vote for me on
(Address of Appointee)

my behalf at the AGM of the HKASME to be held on the 28th June 2025 and at any adjournment thereof.

As witness my hand this _____ day of _____, 2025.

(Signature of Appointer)

NOMINATION FORM

To: Hong Kong Association for Science and Mathematics Education

Office 14, 1/F, Po On Court, 1-15 Po On Road, Kowloon.

Fax no.: +852 2333 3355

(N.B. This Nomination Form must be submitted to the Hon. Secretary at least 3 days before the scheduled time of the AGM, i.e. 24th June, 2025.)

This is to nominate *Dr./Mr./Mrs./Ms. _____,

(please print, surname first)

Membership No.: _____ for a post of council member in the Council of Session 2025-2026.

	Nominator	Secunder
Name (please print)		
Membership No.		
School/Organization		
Signature		

Consent of the Nominee to stand for election:

Date: _____ Signed: _____

* *Delete as appropriate*

Note: The number of council members in the Council of Session 2025-2026 is 14, one of which is the Immediate Past Chairman. The number of vacancies for open nomination is 13

(For office use)

Received by Hon. Secretary on : _____

The Hong Kong Association for Science and Mathematics Education

MEMBERSHIP APPLICATION / UPDATE FORM

To: Membership Secretary New application
 Hong Kong Association for Science and Mathematics Education Renewal
 Room 14, 1/F, Po On Court, Update
 1-15 Po On Road, Shamshuipo, Kowloon. (tick the appropriate box)

(Please read the notes at the back before completing this form. Personal data collected will only be used for record and statistical purposes. To support the green movement, the HKASME is sending materials via email as far as possible.)

** delete as appropriate*

We would like to *** join the Association as an Institutional Member / update our record.**

Membership payment method (Pls tick): Cash Cheque

School/Organization: _____

Address: _____

Phone: _____ Fax: _____ Website: _____

Email: _____

Type of Organization (Pls tick): Primary School Secondary School Tertiary Institutions
 EDB HKEAA Others: _____

** delete as appropriate*

We appoint *** Prof./Dr./Mr./Ms./Mrs.** _____ (in English)
 (_____ <in Chinese, if applicable>) as our primary contact person.

Home Address: _____

Contact Phone: Home: _____ Office: _____ Mobile: _____

Email: _____ Member No.: _____

For all correspondence sent via regular post, please deliver to his / her (Pls tick) Office Home

Please also send information (subject/Association news) to the following person(s) via email:

Name	Email	Subject Teaching
		Biology
		Chemistry
		Integrated Science
		Liberal Studies
		Mathematics, Junior
		Mathematics, Senior
		Physics

Name: _____ Signature: _____

Position: _____ Date: _____

The Hong Kong Association for Science and Mathematics Education welcomes schools, institutions and organizations recognized by the Council to join us. The current Annual Fee for an Institutional Member is HK\$800.

There are several ways to pay the annual membership fee, choose the one most convenient to you:

- Cheque by Mail**
Please make your crossed cheque payable to "HKASME Ltd" and send together with the application/renewal form to: Room 114, 1/F, Po On Court, 1-15 Po On Road, Sham Shui Po, Kowloon. Please do not send cash by mail.
- Cash In Person**
Please complete the Application Form and pay the appropriate amount at our office.
Address: Room 114, 1/F, Po On Court, 1-15 Po On Road, Sham Shui Po, Kowloon.
Office Hour: Mon-Fri 10:00-13:00, 14:00-17:00
- Paypal**
For this payment mode, an additional administration fee of HK\$10 will be applied to the General Membership Fee (i.e., the payment will be HK\$160 in total) while an additional administration fee of HK\$40 will be applied to Institutional Membership Fee (i.e., the payment will be HK\$840 in total).
- Direct transfer to HKASME Account**
Please transfer the appropriate amount to HKASME's Hang Seng Bank Account: 262-103070-001 . Collect the receipt of transfer and mail/email or fax the receipt with the application form to our office. (Email: membership@hkasme.org) (Fax: 2333-3355)

For enquiries, please contact the HKASME Office:

Hong Kong Association for Science and Mathematics Education
 Room 14, 1/F, Po On Court,
 1-15 Po On Road, Shamshuipo, Kowloon.
 Tel. No.: 2333 0096, Fax no.: 2333 3355

-----*(For Office Use Only)*-----

Member Category: Ordinary Associate Member No.: _____

Date Received: _____ Amount: _____ Receipt No.: _____

Cheque Number: _____ Date Deposited: _____

Membership valid from _____ to _____

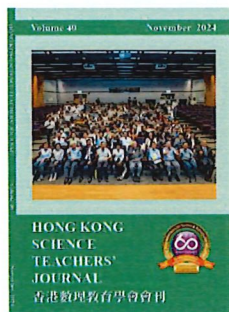
Date Processed: _____

*** For new members, "Date of joining" = "Date Received"**

Calling for Articles of HKASME Journal (Volume 41)

Dear all members,

The latest HKASME Journal (Volume 40) had been issued before. I hope you enjoy reading it and your teaching ideas can be inspired.



Meanwhile, please notice that the next HKASME Journal (**Volume 41**) will be published and issued in **September 2025**, as what we scheduled before.

We are now calling for articles from authors. Would all 'potential authors' grasp the valuable chance of sharing your research findings, teaching ideas, views or experiences on any aspects of the education sector? The following ideas are provided for your own thoughts for sharing:

- ✧ Sharing ideas / difficulties in STEM / STEAM education / implementation
- ✧ Difficulties encountered and techniques to overcome in NSS implementation
- ✧ Experiences on handling SBA tasks concerning Science subjects and Liberal Studies
- ✧ Issues concerning the HKDSE examination
- ✧ Teaching ideas on certain topics of Mathematics, Science subjects and Liberal Studies
- ✧ Experiences in organizing teaching and learning activities
- ✧ Book review / Website recommendation

The deadline for submission of articles is **30th June 2025**.

Articles, photos or any other stuff concerned can be sent through email to me (cfc@ilc.edu.hk) or Miss Chu (enquiry@hkasme.org). Thank you for your help in advance. Thank you for your support to the HKASME Journal for years.

Best regards,
Ms. Coco Cheung
Journal Editor, HKASME

Resources Collection --- CONTINUE CELEBRATING THE IYPT-2019

(INTERNATIONAL YEAR OF PERIODIC TABLE) ...

(A-1) ** New ** -- "Element Cubes" -- IYPT resources ... <== could ALSO

be used as tools for your students to plan their "Experience Package" *for the NEW*

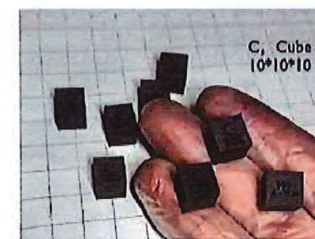
competition "My experience with the Periodic Table" for IYPT-2019(HK). --- check

Chem News (C1) above....

>>--)) Element CUBES of (1 cm x 1 cm x 1cm) – 4 elements available



(Ni cubes) ...



(C cubes)

Element / Symbol (At.No.)	Purity	Density	Price (Member / Non-member)
Carbon / C (6)	999 (= 99.9 %)	1.82	\$ 30 / 40
Nickel / Ni (27)	995 (= 99.5%)	8.9	\$ 50 / 60
Titanium / Ti (22)	995 (= 99.5%)	4.506	\$ 30 / 40
Molybdenum / Mo (42)	9995 (= 99.95%)	10.22	\$ 60 / 70
Gold / Au (79) in tube	999	19.3	\$ 30 / 40

"More" How to use the "Element Cubes" ?? -- check April mailpack for different uses ... and ...use your imagination & creativity for the followings: ...

1/ Use waste cardboard and papers to make "paper element cubes" with element info on the 6 sides.

2/ How to use the above depend on your imagination ... e.g. as a gift, ... as detective chess, .. as a conversational tool to inspire students

3/ Using the “real cubes” (bought as above) and the “paper cubes” together for different activities ...

(A-2) Sets of elemental package for comparison / metallic investigations...



various metal combination packs are available with

metals Mn, Bi, W, Zn, Ti, Cr, Sb, Pb, Mo, Some mixed packs with 5 random metals at (\$30) and 3 metals at (\$20).

.... → Ask for more updates at the Office (2333-0096)!

(B) Periodic Table items for IYPT-2019 >> & Still extending into 2021! ...

>> YES, check Chem News Section!

** The IYPT-2019 (International Year of Periodic Table) will have global and local activities until the end of the year. Hence, it is not late for you to initiate activities for your school or class or students to join the grand celebration around the World. For updates and our new competition (“My Experience with the Periodic Table” – a continuation of the 2018-19 competition “Element of the Month”), please go to www.hkasme.org > Subject Comm > Chemistry > IYPT or email your questions or message to iypt2019@hkasme.org

For details of the competition “Element of the Month for IYPT-2019(HK)”, please refer to the final report in this Journal or check at www.hkasme.org > Chemistry > iypt2019.

(B1) → Different types of Periodic Tables:

1. <u>Different size: A4 / postcard / bookmark --</u>	
2. 3D periodic table, large size (\$40) --	
3. Heat sensitive periodic table --	
4. Heat sensitive Cup with periodic table --	(change colour with cold water).

(B2) Periodic Table Mugs:

	Periodic Table Mug (classical)	\$60
	Periodic Table Mug (yellow)	\$60
	Periodic Table Mug (coloured)	\$60

– Ask Office for updates at 2333-0096.

Check for more at the SME Office ... ← → STEM nourishment needs experiential learning !!!