

HKASME Apr--2023 Mail Pack

< A charitable institution since 15 May 2010 under the Section 88 of the IR Ordinance. >
< Serving ALL teachers since 1964 ... >



yr 2023 + Count to 60th



>>* 1 year to go for our **60th Anniversary** (since 1964).... Check new items in this mail pack

leading to **2024** – the Association 60th Anniversary (*Esp. the “**60th Corner**”)..... → ...

whether you are New or Old members – think what you would contribute to the celebration!!!



> Intn'l Year of 2023 :: >>

>>[*]* What are the global problems? Is Food & Health in your category? India's proposal to observe an International Year of Millets in 2023 was approved by the Food and Agriculture Organisation (FAO) in 2018 and the United Nations General Assembly has declared the year 2023 as

the **International Year of Millets (IYOM-2023)** .!!!

??- Millets? What are they? Why focus on that? How?



Check for more at <https://twitter.com/IYM2023> ... !!! You

could explore and get prepare for your OWN students in 2023 from such activities! >>....

Items in this pack:

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◆ **“60th Corner”** – (60-6) Life-long Activities of

HKASME < 4: **International Activities** > P.7-9

◆ **“STEM Corner”** -- (ST-1) World Health Day (7th April) (ST-2) AI for P10

◆ **Science News** – (S-1) **“Digi-Science” Video Competition** for HK Sec. Schools – Theme: **“Food Testing in Daily Life”** Submit due by Apr. (S-2) **IYOM-2023** ... More...P.11-13

◆ (S-P1) Primary STEM Project Competition 2022-23 (**常識百搭**) **FINAL is COMING BACK** – with vast Exhibition for WHOLE DAY on 11-May,2023 at HK Central Public Library Hall!!!

◆ **Chemistry News** – (C1) **NEW** **competition: “Chemical Celebration**



of HKASME-60”. **SME *60** : **Batch-1 Results & Report released;**

Batch-2 (due by 31/3/2023) (C2) **HKChO (Chemistry Olympiad)** –

Theme: **“Waste – Second Life – Chemistry”** – Submit due by 31/3/2023. (C3) Sodium comes to the battery world (C3) How do plants sense stress? (C4) ICQ P14-18

◆ **Biology News** – (B-1) **HKBLA 2022-23** – “2nd Round” completed (B-2) Biggest and oldest rabbit!? P19

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◆ **Physics News** – (P-1) **Physics Mock Exams – Results & reports distributed**P22

◆ **ETV News** –P23

◆ **Resources Collection** -- Stock is LOW! ... “Element Cubes”! “Element Packs”! New

“Periodic Table items” ... P24-26



◆ **Biggest and OLDEST rabbit in record!?** How

would you link span of life to different species (animal / plant)?? ...

>> Check relevant details and prepare your students for the International Year Celebration & the Year of Rabbit!?

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

AND ISSUES of POST-COVID19 – including learning & teaching!



((~~~~~))

Council News

☺☺☺ **More Requests... & Ongoing to 60th-2024 (6) ...** ☺☺☺

With the FULL recover of most social activities, we and schools need to adapt to new situation that is brought about by habits that is developed from the viral impact. Both physical and psychological impact on students is most crucial. Teachers and schools need to help them to ease out of the “cocoon” developed during the pandemic. However, due to the sustained possible infection (the virus concentration is low but not disappears!); there are still quite a while that the activity need to handle the probable infected participants on the day of competition or test. Anyway, there is no short cut for this but to face the reality and try hard to find solutions or alternatives. So, take care!

Meanwhile, all organizers are glad to have face-to-face activities back. One yearly grand activity is the “Primary STEM Project Exhibition Competition (常識百搭)” that has its final judging at the Hong Kong Central Public Library Exhibition Hall comes back by 11/5/2023 this year. We hope this situation could be sustained and make up for the loss of our students’ learning over the past years.

On the other hand, may be due to the overwhelming flashing of activities, we still have difficulties in finding school venues for our activities. Just try our best!

Another activity suspended for years is the “Science Assessment Test” for the Junior Secondary Science (S2-S3). This will be resumed with tests being held in separate

schools. However, some teachers (may be new) misunderstood that this is a competition. Thus, we would like to urge teachers to check the goals of this activity posted online – which focus more on the findings about the teaching and learning situation of different schools. Of course, the grading and analysis report (if school has enough participants) after the test may be a special reward for your teachers and students. Further, teachers may also discuss about the findings of the reports with our advisors and dig out more from their overall performance and / or some special areas they would like to research.

More, we are happy with the much relieved situation recently and we hope this status could be maintained (or even more vigorous) towards our 60th anniversary (into 2024). With the successful completion of the **Batch-1 “Chemical Celebration of HKASME-60”**, the **Batch-2 competition continue** with the due submission by 31st March, 2023. The submissions had been screened with results posted online. Congratulations to all winners and also participants (some have tried the 2nd time). We hope this celebration is more than just a competition which the students have voiced in their respective submissions that all hope the Association could work alongside with all teachers and students for better education in the Science and Maths sectors.

Another **60th Anniversary (1964 to 2024) activity is the new Corner “60th Corner”**. The “60-6” session in this pack is about another aspect of life-long – “International activities”. See how much do you remember (for old members)? And how could that be modified for your (& OUR) future development.

Again, we would like to thank our dedicated colleagues in helping and supporting different activities in the hard times and we hope the 60th Anniversary could come with something special in the coming year.

Afterall, just to remind teachers about the ordering of references and tools from the Office. We must alert all teachers that delivery time for many orders will be much longer than before due to the global viral impact on logistics. 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 have a prosperous Year of Rabbit
The Council
Apr 2023

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

* Thanks for all donations in the past 59 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 60th ...>
((=====))



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

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

>> NEW:: **COVID-19 PHENOMENON-BASED LEARNING (PhBL) ENGINEERING CHALLENGE**

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

>>>=====

**** Up-coming Events of HKASME ****

HKASME Coming Issues ... due to Impact of Coronavirus Infection ... may be..

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

Activity / Issue	Current situation	Remarks
"60th Corner" NEW > a NEW Column to recap important events in the Association history leading to 2024 -- the 60 th Anniversary	(60-6) : Life-long activities of HKASME <4: International Activities> {note: (60-1) to (60-5) in Sep to Feb-Pack..}	Members could contribute to this Column with notes, special items, blessings, etc.. Just email us: enquiry@hkasme.org
"Chemical Celebration of HKASME-60" Batch-2 NEW > a NEW competition to celebrate our 60 th Anniversary	Article design within about 2 A4-pages with "chemical elements" having atomic nos. rounding up to 60. Need to explain why such elements are used.	Check details online and also Report for "Batch-1" on WWW (with results). > 2nd Batch due by 31/03/2023
Sales of equipment &	Office still operate within our	Phone (23330096, 23337602)

references	limits.	++ ONLINE data & order
NEW Digi Science Video Competition 2022/23 – Theme: "Food Testing in daily life"	Submission due by 11/4/2023. Screening will be completed in May.	Check WWW for details of Final Results of 2021-22.. & newspaper interviews.
Chemistry Olympiad for Sec. Schools – Theme: "Waste – Second Life - Chemistry"	Submission due by 31/3/2023. Screening will be completed soon & finalists will be notified later..	Check WWW for details about the Final round competition ..
HKBLA 2022-23 ALL COMPLETED...	> 2 nd Round (3-min presentation) at HKU	Check results online
NEW 25th Primary STEM project Competition (常識百搭)	Final Exhibition at Central Public Library (11/5/2023 [THU]). Update news online at hkcdcity.net	Final Round resumes this year with AM and PM sessions.
NEW 2023 Science Assessment Test (for S2 to S3)	Teachers chosen own venue and test dates within (20/4 to 5/5/2023).	Check details online & apply due by 31/3/2023 ** Sample Qns available online
NEW ICO 2023 (previous ANCQ) by RACI, Australia.	Apply online due by 26/5. Test date at your OWN school during Jun to July.	Mainly for F.3 to F.6. Student could take higher levels!!!

>> Though the spread of Coronavirus is diminishing, 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 (2022-23)**- "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.hkasme.org.
➔➔ **Some books (Maths & Chem) are on sale about 50% OFF!** -->> CHECK at office!



(60-6) Life-long Activities of HKASME-60 <4: International Activities> ...

Originally, the Association aims at serving local science and mathematics teachers. However, in the early days of establishment, the curriculum we used were mostly adopted from the UK curriculum (mainly GCE OL and AL). Textbooks were also those from the UK. Even when the HKEAA (from 1970s) and CDC (Curriculum Development Committee in 1970s) established to handle the then public examinations (HKCEE and HKAL), there was not much change in the local curriculum. Further, teaching training at the university level (just HKU and the then CUHK) was limited and professionals in charge of such were also from the overseas. Further, as science and maths had international elements from the start, the Association automatically has links to the science and maths education organizations (including China Mainland, Taiwan and Macau). Thus, one would not surprise with HKASME as one of the founding member of the ICASE (International Council of Association for Science Education).

With the above background, one would easily understand that the Association had organized / co-organized or participate different International Science and Maths Activities since 1970s. You may gain some insights about the HKASME's international participation with the following photos that show the link with other professionals around the globe.



Photo 1: The 4th Asian ICASE Symposium, held in CUHK, Dec-1982.



Photo 2: Dinner after the 1982 Dec ICASE symposium (above).



3a)



3b)

Photo 3a: Shanghai and Hong Kong Science Education Conference, Jan 1985 at Shanghai (3b: Dec-1984)



Photo 4: Dinner gathering after the 1985 Conference (above: Photo 3a)



Photo 5: Exhibition Booth in an International Education Conference (1984)



Photo 6: 2012 Science teachers conference between Hong Kong and Mainland China (Shaoguan)



International Year of CHEMISTRY 2011

Photo 7: International Year of Chemistry, 2011 – coorganizing some activities with different Chemical Societies / Universities in HK.

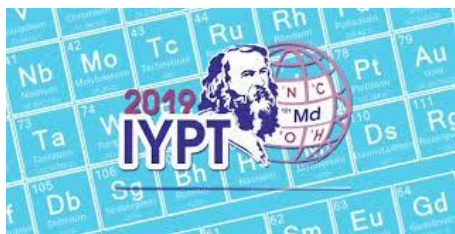


Photo 8: IYPT-2019 : International Year of Periodic

Table

-- hosted a series of competition related to the IYPT-2019. One serial activity in school year (2018-19) is the “Element of the Month” competition.

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>> Of course, the above are just a few of the life-long activities that the HKASME had held in the past 60 years. And, we would like to take the opportunity to thank all enthusiastic organizers in the past and the participants in supporting the events.

In the coming 60th Corner, more different activities with different background will be mentioned. See you next round (60-7)!

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{{.. Note: The first article of the “60th Corner” Series is (60-1) “1964? What happened?” -- in the HKASME September-2022 Mailpack. }}

*** << **STEM Corner** >>***

(ST-1) World Health Day (WHD) :: 7th April, 2023 promoted by WHO

While the effect of the pandemic is diminishing, there are still quite a lot of health risks in our daily life.

>> This year is the 75th anniversary of WHD... The WHO was founded in 1948 and is the United Nations agency that connects nations, partners and people so everyone, everywhere can attain the highest level of health.

...

>> Check for more at
https://www.stem.org.uk/resources/collection/521576/world-health-day-secondary?utm_medium=email&utm_term=&utm_content=World%20Health%20Day&utm_source=Adestra&utm_campaign=Secondary%20STEM%20eNewsletter%20March%2023

>> These resources can be used with secondary-aged students to explore a range of ways in which we can keep healthy, common diseases and their risk factors and treatment, and the importance of lifestyle in determining good health.

Issues:: Good and ill health; Diseases; pathogens;

Will you keep your students alert of some special issues??

(ST-2) AI Some teachers and students had tried to use ChatGPT to enhance learning – especially with tackling of special questions, and/or suggestion for project approaches, etc...

How would you respond to this – especially when students ask for advice? You can’t stay behind the curtain and must try to check for tasks handed in from students!

And, will you try to ignite your students’ creativity via different AI-packages? :) :) :)



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** Science News ** --

(S-1) “Digi-Science” Video Competition for Hong Kong Secondary Schools 2022-2023

1. Aims

The competition aims at:

- promoting students’ interest in learning Science;
- developing students’ problem solving, communication and science process skills through demonstrating and explaining interesting experiments;
- encouraging students to communicate scientific ideas to the public in a meaningful and creative way; and
- raising students’ awareness of testing and certification and its importance to their daily life.

2. Participants’ Qualification

Participant must be a secondary student of a whole-day school.

3. Requirement of Entry

(a) Theme:

Food Testing in Daily Life “生活中的食品檢測”

(b) Video:

- The duration of the video should be not exceeding 2 minutes.
- The science experimental work should be conducted in the school laboratory using materials obtained at home, schools or any daily products. Risk assessment should be conducted before starting the experiment. Supervision from the teacher should be provided when the students carrying out the experiments.
- The content could be presented in either Chinese or English. Mixed language is not accepted.
- The content should not be promoting any product brands and should not display the brand name or logo of any products;
- The video should be uploaded on YouTube (URL: www.youtube.com) before submitting the Application Form and the report.

(c) Report:

- The video should be accompanied by a report including the experimental principle and the safety-related aspects for the experiment. The coverage of the report should not exceed four single sided A4 papers (including reference sheet). The idea can be illustrated by texts, diagrams or photos, etc.
- The report shall have a cover page with the title of the video. School logo or name should be avoided on any work, otherwise participants may be disqualified.
- The language used in the report should be consistent with that used in the video.

4. Rules

(a) The competition consists of Junior Secondary Division and Senior Secondary Division:

1. Junior Secondary Division: Students of S1 to S3.

2. Senior Secondary Division: Students of S4 or above.

(b) Teams, comprising not more than three students in a team, must be nominated by schools. Each school can nominate a maximum of two teams and each team can only submit one entry. A team who submits more than one entry will be disqualified.

(c) Each entry should include a video and a report.

(d) Entries must be the participants’ original work that have not been published previously, nor submitted for other competitions.

(e) Entries must not infringe any intellectual property rights or any other rights of any third party.

5. Submission of Entries

(A) Application (due by 9 Jan 2023): Fill in the Application Form (Appendix I) and email to digisci@hkasme.org.

(B) Submission of Report: The report(s) for the video(s) should be submitted together with the attached Submission Form (Appendix II) via schools **by post** to “Hong Kong Association for Science and Mathematics Education, Rm 114, 1/F., Po On Court, 1 Po On Road, Sham Shui Po, Kowloon”. Please mark clearly on the envelope “*Digi-science*”. The deadline for the entry submission is 11 **April 2023 (Tuesday)** (the postal chop date will be the date of receipt).

6. Judging

(a) The judging panel for the competition will comprise representatives from HKCTC and HKASME.

(b) Entries will be marked according to the following criteria:

- How the experiment and the report are presented and elaborated;
- Whether the idea of experiment is creative; and
- Whether the entry is interesting, original, scientifically accurate and engaging to ordinary audience.

7. Awards

(a) The competition consists of the following awards for each junior secondary and senior secondary levels:

- One Champion : One trophy and book coupons worth HK \$1,000
- One first runner-up : One trophy and book coupons worth HK \$800
- One second runner-up : One trophy and book coupons worth HK \$600
- Two merit awards : One award certificate and book coupons worth HK \$300 each

(b) All participants will receive a certificate of participation.

(c) Winners will be notified of the competition results before **Early May 2023** and be invited to receive their awards in a prize-giving ceremony, details of which will be given in due course.

Copyright The organisers reserve the right to publish in full or part of the entries. All entries will not be returned to schools.

For details, please visit our website: www.hkasme.org



(S-2) **IYOM-2023**

<-- Millets – What are they? Why so important?

Millets are a highly varied group of small-seeded grasses. They are widely grown on the globe as cereal crops or grains for food. They are important in the tropics of Asia and Africa (especially in India, Mali, and Nigeria). 97% millet production is in developing countries.

This crop is favoured due to its productivity and short growing season under dry, high-temperature conditions. They are highly tolerant of drought and other extreme weather conditions and have a similar nutrient content to other major cereals. It has been consumed by humans for about 7000 years and potentially had a pivotal role in the rise of multi-crop agriculture and settled farming societies.

The **IYOM-2023** was supported by 72 countries principally to reverse the consumption decline of the nutrient-rich grain and open opportunities for the country's millet growers, accounting for 41% total world production since 2020. Could this be a solution for the food problem in this year of crisis??

Check for more online about IYOM-2023 and **prepare for update activities to your students!!!**

>> **IYOM 2023 activities & results with photos & videos are posted also on TWITTER :**

<https://twitter.com/IYM2023> ... Get the most from their various types of activities including all walks of people!!!

**** Chemistry News ****

(C1) **NEW** **Competition: “Chemical Celebration of HKASME-60”.**




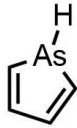
Batch-2 *Submission had been screened with results posted online*

at www.hkasme.org >> Similar to previous submissions, there are some good designs. And, the most astonishing design is a “3D object” (which could be 3D-printed as a real object) and this should be our first encounter of a 3D-submission amongst all different kinds of competitions.

The winners for the Batch-2 “Chemical Celebration of HKASME-60” is as follows:

Results of “Chemical Celebration of HKASME-60” Batch-2 March-2023
for 60th Anniversary of

HKASME(2024)”

Award	Student (Level)	School	Title / Message presented
Excellent Award	<u>Chau Pui Ki</u> (F3)	Diocesan Girls' School	“SME-60” Exhibition – a 3D hexagon object with 6 faces showing features of 5 elements (10 to 14) relevant to SME60! ** [Note 1] 
Outstanding award	<u>Leung Ka Sing</u> (F5)	POCA Wong Siu Ching Secondary School	Design based on structure of Arsole, C ₄ H ₄ AsH. Hoping HKASME to have a strong bond with students and can contribute more to science education and the society 
Outstanding award	<u>Chau Fei</u> (F4)	Buddhist Tai Hung College	Poetic verses with elements related to “life” : (6x8) + (6x2x1) makes “SME60”. <i>“With the nourishing from carbon, we grow.... “</i>

Merit award	Leung Cheuk Yin (F5)	POCA Wong Siu Ching Secondary School	The three wizards : Ag, Na & He (47+11+2) related to “electric, fire and flying wizards” power of HKASME to further develop.
Merit award	Poon Yan Tung (F4)	Shau Kei Wan Government Secondary School	Poster with NI3, Si and Li representing explosive nature and further development to 180 th year in future (NI3 + Si = 180)
Merit award	Liu Yilin (F5)	Concordia Lutheran School (North Point)	Poster with elements (Mg, Al, N, Ni) : 顯微鏡表示舞台。燈光下的 60 (代表 60 週年) 閃閃發光，與元素一起共舞，共同歡慶是次 60 週年活動....
Merit award	Fu Wing Shing (F5)	Buddhist Tai Hung College	“Natural Bonding Homeland” - Based on NaBH4 [(11+1) x5 =60]. Poetic expression with strong bonding of NaBH4.
Merit award	Lam Tsz Ki (F3)	YOT Chan Wong Suk Fong Memorial Secondary School	Poster with HKASME 60 and elements (Li, S, O, Fe, C, H) embedded in “60” to emphasize our development in future.
Merit award	Lee Ching Yau (F5)	YOT Chan Wong Suk Fong Memorial Secondary School	Drawing with He, H2, CO2, O2, HCl (total 60) showing different advancement of mankind in relation to different usage.
Merit award	Wang Cindy Hing Yu (F2)	Diocesan Girls' School	Poster of “HKASME 60!” – with elements 1 + 3 +9 + 11 + 17 +19
Notes:			
[1] *The excellent award design is actually a 3D object with 6 faces and could be moved on-screen. In this 2D-print report, we had captured some faces of the design to let you appreciate the object. The actual 3D object could be printed out as a 3D-model using a 3D-printer! Check for details of this design in the Last section.			
[2] All other participants will have a certification of participation.			
[3] ALL participants' name will appear in the final report of this Chemical Celebration which will be published in the Association Journal (expected to be out by Sep-2023).			

Congratulations to all award winners and thanks all teachers and students in supporting the event.

As the activity is to encourage all teachers and students to participate in this meaningful and historical moment with 60th year of services to the Maths and Science Education, all other participants

will also have “Certificates of Participation” and their names will appear in the Final Report of the “Chemical Celebration of HKASME-60” in the Association Journal (to be published in Aug/Sep-2023). The situation will be similar to the grand global celebration in IYC-2011 (IYC = International Year of Chemistry) in Hong Kong and around the World (<https://cen.acs.org/collections/iy2011.html>).

*** **A final report (including both Batch-1 and Batch 2) will be published with all participants in the Association Journal (expected to be out by Sep-2023).**

(C2) Hong Kong Chemistry Olympiad for Secondary Schools (2022-23)

ALL reports had been received and being screened. Teams that could enter the final round competition will be notified and get prepared for the final presentation and competition.

(C3) How do plants sense stress?



Being rooted to the spot, plants don't have the luxury of running away when they're attacked. They do have a system to deal with being eaten, but it doesn't revolve around nerves or a brain. Say a caterpillar is munching on a leaf; the plant immediately senses the damage and mounts a response, diverting its resources from growth to defence and, for example, churning out combat chemicals destined for the caterpillar's guts. This defence system is triggered by chemical and electrical signals, transmitted surprisingly rapidly, and their exact mechanisms have puzzled plant scientists for decades.

> For details, please check ...
https://www.chemistryworld.com/features/how-do-plants-sense-stress/4017150.article?utm_source=cw_weekly&utm_medium=email&utm_campaign=cw_newsletters

(C4) 2023 International Chemistry Quiz (ICQ) (H. K. Section)
Application Form (Enquiry: Tel: 2333 0096 Fax: 2333 3355)

URL: <http://www.hkasme.org>

Quiz Date: June 20 - July 20, 2023

Duration of Quiz: 1 hour

Quiz Format: 30 M.C. questions (M.C. sheet will be supplied by HKASME)

Entry Fee Per Head⁽¹⁾: HK\$100 (include administration fee, postage fee to and from Australia, students' result and appropriate grade, question paper and M.C. sheet)

Application: Return by post with the following documents/stuff to Rm 114, 1/F., Po On Court, 1 Po On Road, Sham Shui Po, Kln on or before 26May, 2023.

1. Application Form⁽²⁾
2. Collection Form
3. Information of Applicants (Excel Form) (The blank form can be downloaded at www.hkasme.org.)
4. A cheque payable to "HKASME Ltd" to HKASME office

Material to be returned⁽³⁾: Answered M.C. Sheets & Question papers (Subject to the designated date of quiz, the quiz materials can be collected from HKASME office and must be returned within the time specified.)

Applicants' information: Fill in the information in the file "Information of Applicants".

Number of Applicants, Papers requested and Entry Fee ⁽¹⁾							
Form 1-2 Year 7		Form 3 Year 8		Form 4 Year 10		Form 5 Year 11	
Chi. ____	Eng. ____	Chi. ____	Eng. ____	Chi. ____	Eng. ____	Chi. ____	Eng. ____
\$	\$	\$	\$	\$	\$	\$	\$
		Total no. of applicants				Total Entry Fee:	
						\$	

Teacher-in-charge:		Sign:	
Mobile no.:			
Sch. Tel:	Email ⁽⁴⁾ :		
Sch Fax no:	School Name:		
Address			

Note:

- (1) The entry fee is NOT refundable once the application fee is submitted.
- (2) Collection Form will be faxed back to the school within 1 week after the application form is received.
- (3) HKASME reserves the rights to reject any application / distribute the results if an applicant fails to fulfill or violate any ICQ regulations
- (4) Please provide an ACTIVE e-mail address for receiving the latest information.

ICQ Order Form

Past Papers Order Form [HK\$20 / copy]								
	Form 1-3 Year 7/8		Form 4 Year 9/10		Form 5 Year 11		Form 6 Year 12	
	Chinese	English	Chinese	English	Chinese	English	Chinese	English
2012								
2013								
2014								
2015								
2016								
2017								
2018								
2019								
2021								
2022								
Total no. of Copies								
Past Paper [@ HK\$ 20]			_____copy(ies) × \$20/copy			= HK\$		
			Postage fee			= HK\$15		
			Total HK\$:					

Teacher-in-charge:		Sign:	
Mobile no.:			
Sch. Tel:	Email:		
Sch Fax no:	School Name:		
Address			
Date:	Cheque no/cash:		

Please make cheques payable to:

HKASME Ltd.

Address: Room 114, 1/F., Po On Court, Po On Road, Shamshuiipo, Kowloon

*From 2021 onwards, the organizer RACI change the name of Quiz from "ANCQ" to "ICQ".

Biology News

(B-1) Hong Kong Biology Literacy Award (2022-23) [HKBLA] all completed.

The 2nd Round competition (18/2/2023) with 3-minute presentation had completed.
ALL results had been posted online at www.hkasme.org. Thanks ALL for supporting the activity.

(B-2) Biggest and oldest Rabbits? Could there be limit for life of animals? What factors affecting that?



... At 129cm (4ft 2in) long, Darius is a record holder after being named the world's longest rabbit in 2010. He was named as the longest living rabbit by Guinness World Records in April 2010, when he was measured for an article in the Daily Mail.



CHECK for more at ...

<https://www.bbc.com/news/uk-england-hereford-worcester-56720118>

.....

“ Protecting Biodiversity, Protecting Life”

Maths News



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

Rm 114, 1/F., Po On Court, 1 Po On Road, Sham Shui Po, Kln.

Tel: 2333 0096, 2333 7602 Fax: 2333 3355

<http://www.hkasme.org/>

幾何作圖 與 解題思維 - 思考解題、出題和教學

主講嘉賓：譚志良先生 (香港數理教育學會)

譚志良先生曾任教多年中學數學，並曾參與香港大學教育學院的非華語生數學支援計劃，喜愛思考並實踐如何幫學生開心學數學。

活動中會以一些不同難度的作圖題出發，探討

- 解作圖題的一些策略
- 作圖題如何扣連幾何知識
- 怎樣把作圖題解連結學與教

活動：幾何作圖 與 解題思維 - 思考解題、出題和教學

日期：2023 年 4 月 28 日 (星期五)

時間：下午 5 : 30 - 7 : 00

地點：天主教新民中學 (九龍油麻地石壁道 2 號，油麻地站 C 出口。)

費用：非會員 \$50 (會員免費)

報名方法:

1. 網上報名 <https://forms.gle/BfdCRCfBz9J76uQx8>
2. 請填妥報名表並連同劃線支票抬頭人(HKASME LTD)，寄回九龍深水埗保安道 1 號寶安閣 1 樓 114 室香港數理教育學會。

歡迎非會員即時申請入會，入會表格可在網上下載。

詳情請瀏覽網址：<http://www.hkasme.org>

截止報名日期：2023 年 4 月 24 日。(先到先得)



Physics News

(P-1) Physics Mock Exam in Dec-2022 (30th & 31st)– ALL scripts had been handled and results processed.

ALL results and reports had been issued and most collected to students.



((=====

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 2023**.

Articles, photos or any other stuff concerned can be sent through email to me (**boasc6218@gmail.com**) 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,
Dr. AU Siu Chung
Journal Editor, HKASME

聯合主辦機構

HONG KONG STEM EDUCATION ALLIANCE 新開會

新地齊讀好書

x

未來工程師大賽

Go Green

比賽題目

綠色創科

藝術科技

智慧生活

參賽資格

- 歡迎全港中、小學校報名參與
- 比賽設有小學組、初中組、高中組
- 每間學校可派多於一支隊伍參賽，但每隊參賽學生不可重覆
(參與學校將自動成為香港科技創新教育聯盟的學校會員和新聞會會員)

比賽獎勵

- 每個比賽主題均設有小學、初中及高中組別
- 每個組別均設有一等獎、二等獎、三等獎各一隊及優秀獎五隊
- 得獎隊伍可獲獎座、獎狀及書券/一田現金券
(一等獎\$5,000、二等獎\$3,000、三等獎\$2,000、優秀獎\$1,000)
- 所有參賽隊伍均可獲獎狀一張，以資鼓勵
- 參賽隊伍可獲香港貿易發展局贊助7月書展入場證

》》》 學校報名及作品提交截止日期: 2023年5月31日(星期三)

報名方法及賽規: 請瀏覽香港科技創新教育聯盟網站或掃描QR code

▶ 如有查詢，請致電3707 1146與蔡小姐聯絡

合辦機構

支持機構

教育局教育多媒體

我們誠意為你送上教育多媒體每月速遞（2023 年 4 月號）



教育局教育多媒體 QR Code



Resources Collection --- Continue Celebrating the IYPT-2019 (International Year of Periodic Table) ... -

(A-1) ** New ** -- “Element Cubes” -- IYPT resources ... <== could

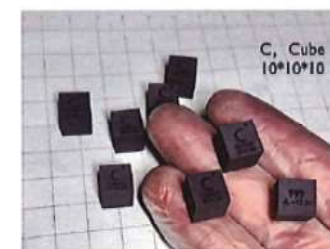
ALSO be used as tools for your students to plan their “Experience Package” for the NEW competition “My experience with the Periodic Table” for IYPT-2019(HK).

--- 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. Different size: A4 / postcard / bookmark --



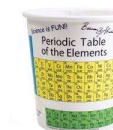
2. 3D periodic table, large size (\$40) --



3. Heat sensitive periodic table --






4. Heat sensitive Cup with periodic table --



(change colour with cold water).

(B2) NEW 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 !!!**