

HKASME *Sep--2023* MAIL PACK

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



stepping to 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! >>...

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[watch](#) P. 12

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◆ **Resources Collection** -- Stock is LOW! ... “**Element Cubes**” ! “**Element Packs**” ! New “**Periodic Table items**” ... P. 31-32



◆ -- **Green & Sustainability!?** *How would you*

link “Green” to your students’ life and your lessons?? ...

>> **Check relevant details and prepare your students for the forth coming future!**

➤ *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

😊😊😊 😊 **Stepping to the real 60th-2024 ...** 😊😊😊

2024 is coming! Yes, it's the step into which our 60th Anniversary comes.

As most of our routine past activities could resume, they all form part of our celebration for our 60th Year! Yet, whether all could be organized depend on many factors – one of which is the difficulty in finding suitable venues for such activities. Anyway, we will try our best to make that happen.

As usual, we must remind teachers that are keen for certain activities (e.g. the Mock Exams) must check our WWW and be prompt at registering for the required places. As most of our application will be handled via online format, please check details online!

More, we are happy with the much relieved situation recently and we hope this status could be maintained. With the successful completion of the **“Chemical Celebration of HKASME-60”**, another similar **competition “Sustainability and Elements” will continue** with similar submission format this year. We hope teachers and students could work

alongside the Association for better education in the Science and Maths sectors in another 60 years to come.

The **60th Anniversary (1964 to 2024) Corner in this pack is (60-9)** about the FINAL aspect of life-long activities – those that could not continue. 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 be prepared for further outburst

The Council

Sep 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*>

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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

<u>Activity / Issue</u>	<u>Current situation</u>	<u>Remarks</u>
"60th Corner" > a NEW Column to recap important events in the Association history leading to 2024 -- the 60 th Anniversary	(60-9) : Life-long activities of HKASME <7: Some can't continue ... > {note: past (60-1) to (60-8) in Sep to June-Pack...	Members could contribute to this Column with notes, special items, blessings, etc.. Just email us: enquiry@hkasme.org
"Sustainability & Elements" – Celebrating HKASME-60 Batch-1 > another NEW competition to celebrate our 60 th Anniversary	Check related files at www.hkasme.org Download all files for processing.	Check details online and also get reference from Report of last similar competition on WWW (with results). Final overall report be published in the yearly Sept. SME Journal
Sales of equipment & references	Office still operate within our limits.	Phone (23330096, 23337602) ++ ONLINE data & order
<u>Digi Science Video Competition 2022/23</u> – Theme: "Food Testing in daily life"	Results posted online	Check WWW for details newspaper interviews and further comments later.
<u>Chemistry Olympiad for Sec. Schools</u> – Theme: " <i>Waste – Second Life - Chemistry</i> "	ALL completed	Check WWW for details about the Finalists
HKBLA 2022-23 ALL	➤ ALL completed	Check results online

COMPLETED...		
25th Primary STEM project (2022-23) Competition (常識百搭)	Final Exhibition at Central Public Library (11/5/2023 [THU]) completed. Final Results online at hkcdcity.net	Ongoing competition for (2023-24) will be similar -- Check online later!
2023 Science Assessment Test (for S2 to S3)	Results checking & Reports preparing, etc.	Debriefing & results analysis – seminar online completed !!!
ICQ 2023 (previous ANCQ) by RACI, Australia.	<u>ALL tests completed – results being processed On the Australian side.</u>	Overall Results - expected by Sep/Oct -2023!

>> 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!



(60-7) Life-long Activities of HKASME-60 <7: __Some can't continue...__>

After a series of reviewing some life-long activities of the HKASME, this 60th Corner is about to finalize and plan forward. With the approaching of the real **2024**, the 60th Anniversary in the School Year 2023-24, you may have different alerts. As the globe is just slowly recovering from the pandemic (though the COVID has not ended), most of our routine annual activities are to be resumed. This is not easy as inflation has raised the cost for running activities – that include fees for renting suitable venues! We must take this chance to thank all kind sponsors for keeping the awards available for the various competitions through the long 60 years.

Despite the lucky activities that could be maintained for years, there are regrets that can't continue. Reasons are many – may be due to financial issues, the organizers had passed away, the activities had other organizations taking up, etc... Below are just some examples.

One good and popular “summer” activity for new teachers is the “New Teacher Induction” in the 1980s to 90s. In the 1980s, the Association is a key member organization that help to host the activity for a designated period in every Summer Vacation before the new School Year begins. Many devoted members had helped the organization of key sessions for subjects and / or other workshops that may followed up in October – that is a joint meeting after the new teachers had joined the teaching team in their new schools. Some valuable shots could be found in the photos at the end of this corner.

Another regret is the termination of the “Teachers’ Centre” and closure of the Teachers’ Centre (at North Point in the 1980s and at the Kowloon Tong Centre in 2000s). The “Teachers’ Centre” is actually a partially governmental related organisation that supported teachers’ activities for all local teachers (and teachers’ organization, of which, HKASME is a dedicated one) that met the objectives of the management committee of the teachers’ centre. Registered association (of which the HKASME was one) could also book venues in the centre for various education functions for teachers. That allowed flexibility and provide resources for associations to reduce the financial burden. However, everything had gone with the dissolution of the Centre. Hence, the associations could only find more financial assistance to cope with the increasing

financial burden with the termination of such services.

One activity that had drawn thousands of participants in the 2000s is the “Maths and Science Trail” (the initial one is just “Maths Trail”). This could not be maintained for long as the number of participants is too big (both teachers & students). Teachers will attend workshop / lecture while the students are doing assigned activities for the competition of that year. Only universities could have enough spaces to handle such crowd. All three universities – HKU, CUHK and HKUST had been the site for the competition in some years. Due to too many participants, the organizers had urge different teachers to take up the responsibility of hosting the “M & S Trail” in different regions – that is, gathering of some schools to host the Trail on different dates.

Some activities, like the “M & S Trail” above, had also transformed in different format due to various reasons. Finally, we must thank all those who had worked hard for the establishment and maintenance of the www.hkasme.org along the 30 years (1993 to 2023). Besides technical issues, the SME_web presence had also been involved in many different activities with many different collaborators – namely the Agriculture, Fisheries and Conservation Department, the RTHK, At present, we rely much on the young helpers to maintain our WWW presence. (Check the figures below)!!!



Sep-2003 : a joint organized seminar (with Fish &

Agricultural Department) about environmental protection for students and teachers

Web cooperation in the early days: e.g. with RTHK education section ...(2004)



[X3] "Science Explorer" under RTHK_etv -- HKASME was an advisor (2004).

http://sciexplorer.etvonline.tv/scienceexplorer_home.html



2008-09 HKASME has involved in a very popular

program (Tutor ONLINE) -- hosted by Radio-TV HK since 2010.

香港電台製作的「上網問功課」節目，透過媒體推廣教育



Field activities

of HKASME in the 1980s. This kind of activities had diminished due to finance issues and also many other organizations have such arrangement.



New Teachers'

Orientation Program in the 1980s (1985 & 1987). The usual venue is the Teachers' Centre at North Point. This had diminished as other organizations also arranged such in the Summer.



Maths &

Science Trail in the 2000s. (Left is the winning teams in the NT_West Region. Right is about workshop for Primary School Teachers.)



is the 2009 Maths & Science Trail competition held at the

HKUST campus. Participants could be over 200.



A memorable and valuable scene as Mr Ng Chi Chung had

left us since 2009 in the midst of his chairmanship. This moment is a shot of Mr Ng discussed with Prof. Chu (our President) about the development of HKASME (together with other Council Members).



Another memorable moment – Mrs. Cheng (our valuable

secretary for more than 20 years) retired in 2010 and had left us years ago. Another important member is the one behind – the then Vice-chairman, Mr Pang chi chuen who had also contributed much to the Association in his long years of serving the Association. The one presenting the souvenir to Mrs Cheng is the then chairman, Mr Wong chi-kong.

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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) STEM Education in 2024: The Top 8 Trends to Watch



Webinar Date:: 6/12/2023 ... online ...

Revolutionize Your STEM Instruction: Stay Ahead of the Curve with the Top 8 Trends for 2024

In this webinar, we will explore the top 8 trends in engaging STEM instruction that are expected to make waves in 2024 and beyond. From personalized learning and adaptive technology to project-based approaches and more, you'll discover cutting-edge strategies and best practices for transforming your math instruction and keeping students engaged. Whether you're a teacher, administrator, or instructional coach, join us to learn how to stay ahead of the curve and prepare your students for success in the future!

Read more at: <https://www.masterycoding.com/event/2024-the-top-8-trends-to-watch>



** SCIENCE NEWS ** --

(S-1) PISA 2024 – Strategic Vision & Direction for Science



A Vision for What Young People Should Know About Science and be Able to Do with Science in the Future

The PISA 2024 Core 2 contract called for a Strategic Visioning Phase (SVP) within the framework development activities to provide a steering document to inform discussion and prioritisation by the Pisa Governing Board (PGB), prior to the Science Framework that will be developed in the next phase by the Science Expert Group (SEG). The methodology used during the SVP is described in Appendix 1 and central to the creation of this paper has been the formation of the Strategic Visioning Expert Group (SVEG). The Strategic Visioning Expert Group proposes that the PISA Science Framework could be significantly updated through the introduction of three new content/knowledge areas, two new competencies and a new dimension with sub-dimensions.

For details, please check <https://www.oecd.org/pisa/publications/PISA-2024-Science-Strategic-Vision-Proposal.pdf>



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

Enhancement of Production & Productivity of Millets

- Strengthening quality seed chain
 - > Fully support to breeder seed procurement
 - > Support foundation and certified seeds
 - > Encourage PPP mode

> Seed Hubs

- Frontline technology demonstrations/ cluster demonstrations
- Demand creation through awareness and increase in consumption
- Crop diversification focus in favour of millets
- States to take steps for procurement

For more details, check ... https://agricoop.nic.in/Documents/Crops_0.pdf

** CHEMISTRY NEWS **

(C1) ICCE-2024

The 27th International Conference on Chemistry Education ...

>> "Power of Chemistry Education for Advancing SDGs"



With the theme of this conference, "Power of Chemistry Education for Advancing SDGs", it aims to provide a platform for educators, practitioners, teachers, chemists, and scientists around the world to interface with pioneers & leaders in sustainable development. It is the moment for us to learn from the present and past while we are charting our future.

Check details at ... <https://www.icce2024thailand.com/>

(C2) "Sustainability & Elements" Competition for Hong Kong Secondary Schools

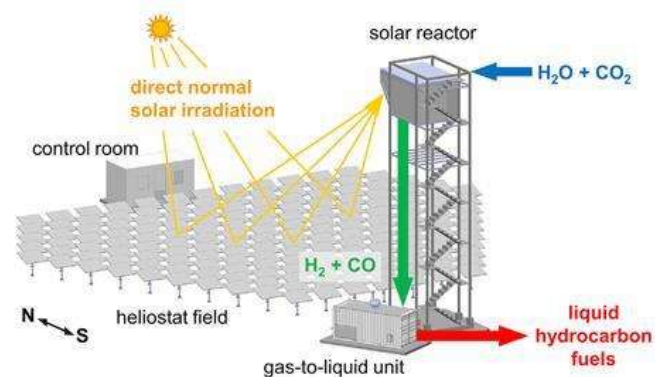


(2023-24) ... due date: 1/12/2023.

This competition is similar to the series of competition since IYPT-2019 and Csm60 in previous years. Check for details by downloading the regulation and related reference files from www.hkasme.org For enquiries, please phone 2333-0096 / 2333-7602 or email: csm60@hkasme.org

>>> *[** Add the page of "regulation file" here!]*

(C3) Jet-fuel from CO₂ Reactor ...



Solar-to-Jet-Fuel System Readies for Takeoff Water vapor, carbon dioxide, and concentrated sunlight can now yield kerosene

>> Within the reactor, the concentrated sunlight creates a high-temperature environment of about 1,500 °C which is hot enough to split captured carbon dioxide and water from the atmosphere to produce syngas. Finally, the syngas is processed to kerosene in the gas-to-liquid unit.

>> For the first time, scientists and engineers at the Swiss Federal Institute of Technology (ETH) in Zurich have reported a successful demonstration of an integrated fuel-production plant for solar kerosene.

Check for more at .. <https://spectrum.ieee.org/solar-to-jet-fuel-system-readies-for-take-off>



(C4) Most Chemistry events resume -- Hong Kong Chemistry Olympiad & Digi-Science ...

Check www for details later.

Details will be updated on WWW. Check the due dates online!!!

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2023-24 HKDSE — Chemistry Mock Examination

為了讓明年參加香港中學文憑考試的學生能有較佳的準備，香港數理教育學會將於 2023 年 12 月下旬舉辦化學科模擬考試，使學生一方面能增加應考化學科試卷的能力和信心，並且了解自己在化學科知識上的不足之處，另一方面能適應在實際環境下參加公開考試的情況。本模擬考試的範圍將涵蓋整個化學科課程，包括選修部分。試卷由香港數理教育學會邀請資深化學科教師根據考試題目趨勢和過往學生的常犯錯誤編寫。

完成模擬考試後，所交回的試卷會由資深化學科教師批改，學生會收到建議答案、成績報告、等級和證書。本模擬考試的名額有限，為免錯失良機，請從速為學生報名。

地點：九龍長沙灣福樂街 533 號，學校禮堂，長沙灣天主教英文中學。

名額：不限

模擬考試的日期和場次：

Date 日期	Dec 28, 2023 (Thu)	Dec 29, 2023 (Fri)	Dec 30, 2023 (Sat)	Dec 31, 2023 (Sun)	Jan 1, 2024 (Mon)
Session 場次	08:30 – 12:30 (CHEM 1)	08:30 – 12:30 (CHEM 3)	08:30 – 12:30 (CHEM 5)	08:30 – 12:30 (CHEM 7)	08:30 – 12:30 (CHEM 9)
	13:00 – 17:00 (CHEM 2)	13:00 – 17:00 (CHEM 4)	13:00 – 17:00 (CHEM 6)	13:00 – 17:00 (CHEM 8)	13:00 – 17:00 (CHEM 10)

費用：

試卷 Paper	費用 Fee
卷 IAB 及卷 II (包括現場應考 + 建議答案 + 批改卷 + 證書 + 成績報告和等級)	\$340 (每人)
卷 IAB 及卷 II (建議答案+批改卷+證書+成績報告和等級) – 校內自行安排考試	\$290 (每人)
只買卷 IAB 及卷 II + 建議答案	\$230 (每套)

**註：1. 成功申請後，所有申請費均不獲退還。

2. 老師可選擇場次 (Session)，先到先得，以交妥報名費日子為準。[座位有限，不設留位。]
3. 老師也可訂購試卷，在校內自行安排考試、試卷可由 2024 年 1 月 8 日 (星期一) 起提取。如要交回作批改，請在 2024 年 1 月 16 日 (星期二) 前交回。
4. 老師只買卷 IAB 及卷 II + 建議答案，請在 2024 年 1 月 16 日至 1 月 23 日派人到會領取。

**5. 老師可在 2023 年 10 月 23 至 27 日購買 2022 年化學模擬試卷和成績報告(pdf)，詳情請致電 2333 0096。

參加辦法：

1. 有興趣參加者請在 2023 年 10 月 27 日 (星期五) 前填妥網上報名表格，並連同劃線支票 (抬頭註明「HKASME Ltd」) 或現金，寄回或親身交至香港數理教育學會辦公室 (地址：九龍深水埗保安道 1 號寶安閣 1 樓 114 室)。截止報名日期為 2023 年 10 月 27 日 (星期五)。
2. 如有查詢，可聯絡香港數理教育學會 朱小姐 (電話：2333 0096) 或電郵至 mockexam@hkasme.org，或瀏覽本會網站 www.hkasme.org。
3. 報名網頁：<https://alt.jotfor.ms/232194961446462>

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2023Chemistry Public Examination Paper Review Rerun

Speakers: Experienced Teachers & Educators

Fee: Free for members / \$130 for non-members (including printing materials)

(歡迎非會員申請入會，入會表格可在網上 www.hkasme.org 下載)

Online application: <https://forms.gle/Bf4DMLxXfwjY4RjZA>

Max Accommodation: 60

Time	September 23, 2023 (Sat) [Application Deadline: Sep 20, 2023 (Wed)]		
Venue	Zoom ● Meeting ID & Passcode will be sent by WhatsApp or email on or before September 20 (Wed). ● One name for one device.		
08:35 – 08:55	Registration & Promotion of coming activities		
08:55-09:20	P.IB (Qn 1-4) No Q&A	10:10– 10:30	P.IB (Qn 10-13)
09:20–09:55	P.IB (Qn 5-9) No Q&A	10:30 – 10:55	PIIA
09:55– 10:10	Break (10 mins)	10:55-11:20	PIIC

Enquiry: enquiry@hkasme.org 2333 0096/ 2333 7602

Payment Method:

- (1) A cheque should be payable to "HKASME Ltd" and post to Rm. 114, 1/F., Po On Court, 1 Po On Rd., Sham Shui Po, Kowloon. Write your NAME and the Activity (2023Chemistry Public Examination Paper Review Rerun) on the back of the cheque.
- (2) Fee can be made through HKASME's Heng Sang Bank account
 - Account no: 262-103070-001
 - Account Name: HKASME Ltd

Remember to send a copy of the transaction slip to enquiry@hkasme.org or Fax 2333-3355 for payment tracking purposes.

In case of the storm warning signal No.8 or above or black rainstorm signal is still hoisted at 7:01 am on that day, the paper review will be postponed to another day. In such circumstance, please visit our webpage, www.hkasme.org, for details. All application fee is NOT refundable.



H.K. Association for Sci.& Math. Education

香港數理教育學會

Online
Application



**Hands-on DSE Chemistry Syllabus Recommended
Micro-scale Experiments**

Speaker: Mr.K.M. Chan (陳國民先生) Experienced Teachers

Fee: **Members (\$100) / non-members (\$200)(including printing materials& expt. apparatuses)**
(歡迎非會員申請入會，入會表格可在網上 www.hkasme.org 下載)

Max Accommodation: 20

Date	October 7, 2023 (Sat) [Application Deadline: October 4, 2023 (Wed)]
Time	0930-1230
Venue	長沙灣天主教英文中學 (九龍長沙灣福榮街 533 號)
Content	Micro-scale experiments on (i) electrolysis and tests of products, (ii) rel. molecular mass determination, (iii) heat of combustion, (iv) gas detection and (v) reaction rate. Work in pairs. Instruction, equipment and materials provided. Feedback and discussion.

Enquiry: enquiry@hkasme.org 2333 0096/ 2333 7602

Payment Method:

- (3) A cheque should be payable to **"HKASME Ltd"** and post to Rm. 114, 1/F, Po On Court, 1 Po On Rd., Sham Shui Po, Kowloon. Write your NAME and the Activity (**2023Microchem**) on the back of the cheque.
- (4) Fee can be made through HKASME's Heng Sang Bank account
- Account no.: 262-103070-001
 - Account name: HKASME Ltd
- Remember to send a copy of the transaction slip to enquiry@hkasme.org or Fax 2333-3355 for payment tracking purposes.

In case of the storm warning signal No.8 or above or black rainstorm signal is still hoisted at 7:01 am on that day, the workshop will be postponed to another day. In such circumstance, please visit our webpage, www.hkasme.org, for details. All application fee is NOT refundable.

"Sustainability & Elements" Competition

for Hong Kong Secondary Schools (2023-

2024)

celebrating "HKASME-60" (慶祝 HKASME 60 年 [2024])..... **Due Date: 01-12-2023**



The **"Sustainability & Elements"** is a competition to celebrate the **"60th Anniversary of the Hong Kong Association of Science and Maths. Education"** (established since 1964). It aims to promote the interest of students in learning Chemistry, with elements and **their special link to sustainability**, and developing students' communication and science process skills through article design with various presentation skills.

Details of the competition are given below: {Submission Form & this regulation can be downloaded from www.hkasme.org}

- Participants** All secondary school students (F.2 to F.6) are welcome. Each student can choose element(s) for their article design that is(are) linked with different aspects of sustainability.
- Rules for the competition** (Check notes in another file).
- The article could be in either Chinese or English.
 - Each article design should be **within TWO A4 pages**. Text and / or graphics could be included. There is no restriction to the format of presentation in the article design.
 - Students should choose element(s) with special features linking to sustainability. Focus of the competition is to call for students' science-related knowledge and skills, communication skills and creativity in relation to chemical **elements**. **The link with sustainability should be given in another file: Supplement Document File [check "Reference Note file" and download SuppDoc file].**
 - No school logo or name should appear in the article.
 - Student name+element-No. should be used as submit-filename (e.g. ChanTM_12(C)).**
 - Students' data should be stated on the Submission Form (available from WWW).
 - The maximum number of participants from EACH school is 8 for EACH batch.
 - Submission of all files should be via email – csme60@hkasme.org with specific filenames (see examples in "Reference Note file")

Submission Submission due date **for Batch-1 is 01/12/2023**. All participants should hand in their **articles & SuppFile, together with "Submission form"**(^^), to csme60@hkasme.org on or before the deadline **through one responsible teacher**. Check details in "Ref_Note File".

- Awards** ➤ ONE *best winner* will be awarded for EACH batch as “**Best Sustainable Elemental Celebration of HKASME-60**”. The winning article will be posted online in our news and Journal. The best winner will have a certificate and \$400 coupons.
- Two other *outstanding articles* may be awarded for each batch. Each outstanding article will have a certificate and \$200 coupons.
- Up to a maximum of 10 *merit articles*(^) will be awarded for each batch. Each merit article will have a merit certificate and a periodic-table-related souvenir.
- **ALL other participants** will receive a certificate of participation for the Competition and their names will appear in the final overall “Anniversary Celebration” [published in the Final Report] as a token of being a participant for this special event [*continual professional development of HKASME*](^)

Enquiries Enquiries may contact HKASME at Tel: 2333 0096 / 23337602 or email csme60@hkasme.org

Copyright The Association reserves the right to publish in full or part of the entries. All entries will not be returned.

(^) No. of merits depends on quality of presentations & sponsorship. (^) **Files can be downloaded at WWW.**

>> References: Check the attached “Note file” and *Students may find the IYPT-2019(HK) competition useful – details could be found at www.hkasme.org > Chemistry > IYPT*

Biology News

(B-1) Butterfly .. biodiversity & butterfly City

** The current butterfly checklist in Hong Kong has 245 species. Hong Kong has five butterfly families --

..... Hong Kong has an impressive butterfly checklist of about 240 species (Lo & Hui 2004), representing about 11% of the 2,153 species recorded throughout China .

** Key sites for observing Butterflies

- >>-- Wu Kau Tang & Lai chi Wo
- Tai Po Kau Nature Reserve
 - Pak Tam Chung
 - Fung Yuen Valley
 - Lugn Kwu Tan
 - The Peak
 - Siu Lang Shui

Reference site::

https://www.afcd.gov.hk/english/conservation/hkbiodiversity/speciesgroup/speciesgroup_butterflies.html

>>--)) ... ^^ **Butterfly Garden Project --**

<https://www.fungyuen.org/en/%E8%9D%B4%E8%9D%B6%E5%9C%92%E8%A8%88%E5%8A%83>

The Butterfly Garden Project by Fung Yuen Butterfly Reserve is supported by Quality Education Fund, along with Chinese University of Hong Kong and New Territories Headmaster's Association. This programme is Hong Kong's first outdoor ecology class, giving the opportunity for students and community to build their own Butterfly Garden. By establishing the garden, participants can also attend lectures, workshop, fieldtrips, training, administrative training. This educates people across Hong Kong, providing them a platform to develop their skills and interests, and promote conservation work for our next generation.

This programme has 4 stages, and runs for 2 years. This includes a comprehensive study on various species of butterflies, the concept of a butterfly reserve, its operation and management structure, and the short and long term goals of the establishment. In addition, schools may use resources and materials at the home-grown butterfly reserve to support their teaching in their classrooms.

Build more Ecological Hotspots in different areas of Hong Kong, connecting points to each other to form Ecological Stepping Stone, so as to form a complete ecological network and

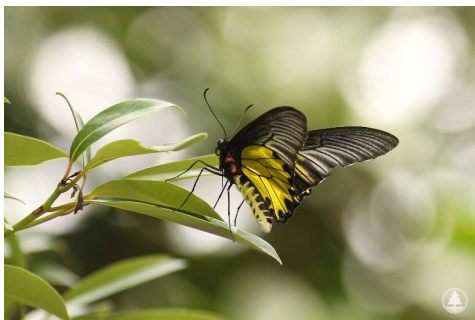
increase butterfly effects, so that the whole Hong Kong can enjoy benefit.

...//-- interested in the Butterfly Garden Project, please do not hesitate to contact >> Tel:

(852) 3111 7344

Fax: (852) 2690 3438

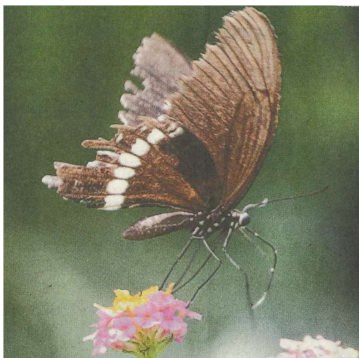
Email: info@fungyuen.org



...Golden Birdwing



.... Red Lacewing



A common species in HK “Fung Yuen” ... under a Butterfly Garden development special scheme

.....

“Protecting Biodiversity, Protecting Life”

2023-24 HKDSE —Biology Mock Examination

為了讓明年參加香港中學文憑考試**生物科**的學生能有較佳的準備，香港數理教育學會將於2023年12月底舉辦一次**生物科**模擬考試，使考生一方面能測試及檢討應考**生物科**試卷的能力，另一方面能適應在實際環境下參加公開考試的情況。本模擬考試的範圍將涵蓋**生物科**課程，**Paper IAB**。模擬考試的試卷由香港數理教育學會邀請資深**生物科**教師根據香港考試及評核局的**考試題目趨勢及考生常犯的錯誤**而編寫。

完成模擬考試後，所交回的試卷會由資深**生物科**教師批改，並在稍後提供得分及建議答案，使考生了解自己在**生物科**知識上的不足之處，增強考生應考**生物科**的信心。模擬考試的名額有限，為免錯失良機，請從速為貴校學生報名。

考試詳情：4 days, 12 sessions

Date 日期	Dec 26, 2023 (Tue)	Dec 27, 2023 (Wed)	Dec 28, 2023 (Thu)	Dec 29, 2023 (Fri)
Session 場次	08:30 – 11:00 (Bio 1)	08:30 – 11:00 (Bio 4)	08:30 – 11:00 (Bio 7)	08:30 – 11:00 (Bio 10)
	11:30 – 14:00 (Bio 2)	11:30 – 14:00 (Bio 5)	11:30 – 14:00 (Bio 8)	11:30 – 14:00 (Bio 11)
	14:30 – 17:00 (Bio 3)	14:30 – 17:00 (Bio 6)	14:30 – 17:00 (Bio 9)	14:30 – 17:00 (Bio 12)

(可選擇場次，名額不限。如有查詢，可聯絡香港數理教育學會，電話: 2333 0096)。

地點：天主教新民書院，九龍油麻地石壁道2號（油麻地地鐵站C出口）

費用：

現場應試 + 建議答案 + 批改卷 IA/B + 證書
卷 IAB (**HK\$ 300)

****註：1) 成功申請後，所有申請費均不獲退還。**

2) 老師可選擇場次，先到先得，以交妥報名費日子為準。[座位有限，不設留位。]

參加辦法：

- 有興趣參加者請在**2023年10月27日前及填妥網上報名表格**，並連同劃線支票（抬頭註明「HKASME Ltd」）或現金，寄回或親身交至香港數理教育學會辦公室（地址：九龍深水埗保安道1號寶安閣1樓114室）。
- 截止報名日期：2023年10月27日（星期五）**
- 如有查詢，可聯絡香港數理教育學會 朱小姐（電話：2333 0096）電郵至 mockexam@hkasme.org，或瀏覽本會網站 www.hkasme.org。
- 報名網頁：<https://alt.jotfor.ms/232194663669468>

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.

((=====

2023-24 HKDSE —Physics Mock Examination

為了讓明年參加香港中學文憑考試的**物理科**學生能有較佳的準備，香港數理教育學會將於 2023 年 12 月底舉辦一次**物理科**模擬考試，使考生一方面能測試及檢討應考**物理科**試卷的能力，另一方面能適應在實際環境下參加公開考試的情況。本模擬考試的範圍將涵蓋**物理科**課程，**Paper IAB**。模擬考試的試卷由香港數理教育學會邀請資深**物理科**教師根據香港考試及評核局的**考試題目趨勢及考生常犯的錯誤**而編寫。

完成模擬考試後，所交回的試卷會由資深**物理科**教師批改，並在稍後提供得分及建議答案，使考生了解自己在**物理科**知識上的不足之處，增強考生應考**物理科**的信心。模擬考試的名額有限，為免錯失良機，請從速為 貴校學生報名。

考試詳情：

Date 日期	Dec 25, 2023 (Mon)	Dec 26, 2023 (Tue)
Session 場次	08:30 – 11:00 (Phy 1)	08:30 – 11:00 (Phy 4)
	11:30 – 14:00 (Phy 2)	11:30 – 14:00 (Phy 5)
	14:30 – 17:00 (Phy 3)	14:30 – 17:00 (Phy 6)

(**可選擇場次**，名額不限。如有查詢，可聯絡香港數理教育學會，電話: 2333 0096)。

地點：長沙灣天主教英文中學, 九龍長沙灣福榮街 533 號,(長沙灣地鐵站 C2 出口)

費用：

現場應試 + 建議答案 + 批改 卷 IA/B + 證書	校內自行安排考試+ 建議答案 + 批改卷 IA/B + 證書	只買卷 IAB + 建議答案
卷 IAB (**HK\$ 300)	卷 IAB (**HK\$ 260)	卷 IAB (**HK\$ 220)

****註：**1) 成功申請後，所有申請費均不獲退還。

2) 老師**可選擇場次**，**先到先得**，以交妥報名費日子為準。[座位有限，不設留位。]

3) 老師也可訂購試卷，在校內自行安排考試、試卷可由 2024 年 1 月 8 日

(星期一)起提取。如要交回作批改，請在 2024 年 1 月 16 日(星期二)前交回。

4) 老師只買卷 IAB + 建議答案，請在 2024 年 1 月 16 日至 1 月 23 日派人到會領取。

參加辦法：

8. 有興趣參加者請在 **2023 年 10 月 27 日前及填妥網上報名表格**，並連同劃線支票（抬頭註明「HKASME Ltd」）或現金，寄回或親身交至香港數理教育學會辦公室

(地址：九龍深水埗保安道 1 號寶安閣 1 樓 114 室)。

9. **截止報名日期：2023 年 10 月 27 日 (星期五)**

10. 如有查詢，可聯絡香港數理教育學會 朱小姐（電話：2333 0096）電郵至 mockexam@hkasme.org，或瀏覽本會網站 www.hkasme.org。

11. 報名網頁：<https://alt.jotfor.ms/232194400512444>

((=====



2023-24 香港小學科學奧林匹克 HK Science Olympiad For Primary Schools

簡介

科學著重帶領我們認識世界、解釋自然界的客觀規律，科學更是 STEM 教育當中首要原素。自 2018 年起，承蒙全港小學校長、師生及家長們等各方鼎力支持，首兩屆**香港小學科學奧林匹克**比賽已逾二千五百名小學生參與，成為學界一年一度科學盛事。本年的**香港小學科學奧林匹克**獲多間大學全力支持，現已定於 **2023 年 11 月 25 日 (星期六)**舉行。香港數理教育學會主辦此項比賽目的為鼓勵對科學素有興趣的小學生，嘗試個人親身體驗及參與這個百分百的科學評估，藉此比賽來測試自己的科學知識水平，幫助同學們建立更鞏固的自信心，有利於配合個人整體發展 STEM 的學習能力。

Description

People acquire and organize the knowledge about the world we live and the whole universe through science learning. With the great support of school principals, teachers, parents and students, over 2500 Primary 5 and Primary 6 students had participated in the Hong Kong Science Olympiad for Primary Schools since 2018. This competition aims to help all the young participants to test their own science learning ability. It also serves to enhance their self-study and self-confidence in learning Science which is a core element of STEM education. The Hong Kong Association for Science and Mathematics Education proudly present this year's **Hong Kong Science Olympiad for Primary Schools** on 25th of November 2023 (Sat). All Primary 5 & Primary 6 students in Hong Kong who share the same interest in Science are welcome to take part in this authentic science written assessment.

主辦機構：香港數理教育學會

Organizer : Hong Kong Association for Science and Mathematics Education

支持機構：香港大學教育學院
香港教育大學科學與環境學系

Supporting Organizations : Faculty of Education, The University of Hong Kong
Department of Science and Environmental Studies,
The Education University of Hong Kong

比賽詳情

日期：	2023 年 11 月 25 日 (星期六)
時間：	早上 (將分三段時間進行) 第一節： 09:00 - 9:50 第二節： 10:20 - 11:10 第三節： 11:40 - 12:30 (參賽者將於賽前獲通知個人比賽時間)
地點：	潔心林炳炎中學(九龍橫頭磡富美街 9 號，樂富港鐵站 A 出口)
參賽對象：	全港小五、小六學生
測試範圍：	有關小學課程以內的科學知識(50%) 及課程以外的知識(50%)。 (所有題目均設有中英文版)
測試形式：	個人評估，在限時(50 分鐘)內完成 30 條選擇題
獎項：	設有 學生個人榮耀金、銀、銅獎項 ，得獎學生均可獲發相關獎牌或證書，以茲鼓勵。 另設 學校獎項 ： 1. 學生表現超卓獎座 (學生獲得平均分數最高頭五名學校) 2. 最踴躍參與獎座 (最多學生參與的學校)
結果公佈：	2024 年 1 月
報名費：	每位港幣 100 元
截止日期：	2023 年 10 月 27 日

申請程序

1. 有興趣參與的學校請於 **2023 年 10 月 27 日** 或之前，將已下載並填妥的報名表格在網上(www.hkasme.org>報名連結內)上載電子報名表。
2. 請將上傳的報名表**列印**，並請打校印及校長簽名，連同支票，抬頭為「HKASME Ltd」，郵寄到香港數理教育學會會址「九龍深水埗保安道一號寶安閣一樓一一四室」。
3. 本會將於收到報名表格後以電郵回覆確認。名額有限，先到先得。如有任何查詢，歡迎致電 2333 009;2333 7602 與香港數理教育學會朱小姐聯絡。

Details of competition:

Date:	25 November 2023 (Saturday)
Time:	Three Morning Sessions 1st Session: 09:00 - 09:50 2nd Session: 10:20 - 11:10 3rd Session: 11:40 - 12:30 (All participants will be notified of their respective assigned sessions before the assessment date.)
Venue :	Kit Sam Lam Bing Yim Secondary School(9 Fu Mei Street Wang Tau Hom, Kowloon. Lok Fu MTR Station exit A)
Participant :	Primary 5 & Primary 6 students
Assessment content :	Science contents from the Hong Kong Primary General Studies Curriculum.(~ 50%) Science contents outside the Curriculum.(~50%) (All questions have Chinese and English version.)
Arrangement :	Individual assessment, each participant has to finish 30 M.C. questions in 50 minutes.
Awards:	Individual Awards include: Certificates of Gold, Silver and Bronze awards School Awards include: 1. Outstanding Performance Award - Schools with Students' mean scores amongst TOP FIVE of all participating schools. 2. The Most Active Participation School - School with the highest number of participants.
Result release :	Jan - 2024
Fee :	HK\$100 / for each participant
Enrolment deadline:	27 October 2023

Application procedure:

1. Please **download** and completed the application form before 27/10/ 2023. Then upload the form via the submission link at www.hkasme.org.
2. Print the submitted e-form and complete the "School chop and "Principal's signature". Then, mail your completed form together with a cheque payable to "HKASME Ltd" and to Rm. 114, 1/F., Po On Court, 1 Po On Rd., Sham Shui Po.
3. Confirmation of application to participants will be sent via email.
For enquiries, please contact Ms Chu at phone: 2333 0096; 2333 7602.

2023-24 香港小學科學奧林匹克**Hong Kong Science Olympiad for Primary Schools**

報名表格

致： 香港數理教育學會 朱小姐(聯絡電話: 2333 0096; 2333 7602)

傳真: 2333 3355 電郵: primary@hkasme.org

截止報名日期: 2023 年 10 月 27 日

中文學校名稱: _____

英文學校名稱: _____

學校地址: _____

負責老師: _____ 參賽學生人數: _____

聯絡電話: _____ 電郵: _____

參賽學生資料

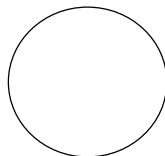
班級	中文姓名	英文姓名	班級	中文姓名	英文姓名

(如有需要，可自行加印此頁)

校長姓名: _____

校長簽名: _____

日期: _____



校印

Application Form

To: Hong Kong Association for Science & Mathematics Education
Ms Chu (Phone: 2333 0096; 2333 7602)

Fax no.: 2333 3355 Email: primary@hkasme.org

Deadline : 27 October 2023

School Name : _____

School Address : _____

Responsible Teacher : _____ No. of Students: _____

Contact no. : _____ Email : _____

Students' Information

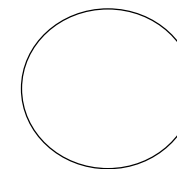
Class	Chinese	English (in block letters)	Class	Chinese	English (in block letters)

(Please copy if needed)

Name of Principal : _____

Signature of Principal : _____

Date : _____



School Chop

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!

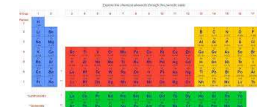
** The IYPT-2019 (International Year of Periodic Table) will have global and local activities until

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) 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 !!!