

HKASME Mar--2023 Mail Pack

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



school year(22-23) + Count to 60th



>>(NEW)* 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?



> Try to find out more in the coming mail

pack ... !!! You could explore and get prepare for your OWN students in 2023!!! >>....

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

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◆ 2023 is

“International Year of Millets (= “IYOM”) How would you address your students’ food problems?! How would you link your lessons to “rabbits”??? ...

>> 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

☺☺☺ **Back to Normal & Marching to 60th-2024 (S) ...** ☺☺☺

With the recover of FULL DAY schooling and wipe off most of the obstacles about the viral development, most activities could be back to normal. However, due to the unstable environment around us; there are still quite a lot of issues to handle especially when the participating student get infected on the day of competition or test. Anyway, there is no short cut for this but to face the reality that they have to missed the activity. So, take care!

During the past year of “home-schooling”, different schools and teachers should have tried out different activities and / or strategies to achieve the original curriculum requirements (or, modify the objectives?). Teachers would like to share about their good trials – whether that be success or failure – we could learn something from that. If you do have that, don’t hesitate to drop a note to us and we could share for all.

Of course, we are happy with the much relieved situation and we hope this state 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. We have included a doc with results and report of the tasks submitted in the Batch-1 (check details online). Some had deeply crafted the learning of science with the Association’s spirit of promoting Science & Maths learning. See if there are even better designs in the Batch-2 Competition. Do encourage your students to join -- even if they had participated in the Batch-1 competition! Other coming due dates include the Chemistry Olympiad and Digi-Science which both fall on 3/4/2023.

Another **60th Anniversary (1964 to 2024) activity is the new Corner “60th Corner”**. . The “60-5” session in this pack is about another aspect of life-long – the Teachers’ activities. See how much do you remember (for old members)? And how could that be modified for your (& OUR) future development.

The routine **“Science Assessment Tests” for S2-3 students** come back this year. Check details online and apply due by end of March. Hope this could re-direct both teachers and students in the Junior Science learning as compared with previous findings.

Again, we would like to thank our dedicated colleagues in helping and supporting different activities in the hard time 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
Feb 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	(60-5) : Life-long activities of HKASME <3:Teachers' Activities> {note: (60-1) to (60-4) in Sep to Jan-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). > <u>2nd Batch due by 31/03/2023</u>
Chemistry Mock Exam (Dec-2022: 24 th to 29 th AM /	Completed – could order for a set if you like!	Results. ..issued

PM)		
Physics Mock Exam (Dec-2022: 30 th to 31 th - 3 sessions per day)	Completed – could order for a set if you like!	Results...issued
Sales of equipment & references	Office still operate within our limits.	Phone (23330096, 23337602) ++ ONLINE data & order
Fun Science 2023-Feb-11 (SAT)	At Science Museum on "11/2/2023" – completed!	Check details online.
NEW <u>Digi Science Video Competition 2022/23</u> – Theme: "Food Testing in daily life"	Submission due by 11/4/2023	Check WWW for details of Final Results of 2021-22.. & newspaper interviews.
<u>Chemistry Olympiad for Sec. Schools</u> – Theme: "Waste – Second Life - Chemistry"	Submission due by 31/3/2023	Check WWW for details of Final Results of 2021-22
2023 ICQ	Deadline application: 26 May 2023	www.hkasme.org
HKBLA 2022-23	> 2 nd Round on 18/2/2023 at HKU completed	Check results online
25 th Primary STEM project Competition (常識百搭)	Ongoing Update news online at hkcdcity.net	Final Round by May-2023 – ZOOM or at HK Central Public Library depends on the pandemic regulations
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

>> As the spread of Coronavirus is still developing with weird patterns, 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!



(60-5) Life-long Activities of HKASME-60 <3: Teachers'

Activities_> ...

Originally, the Association aims at teachers' professional development. That is, the primary activities should be teacher-based/related. Further, as teaching is just one aspect of teachers' daily routines (for most primary and secondary schools), we need to take care of the other perspectives -- learning strategies, assessment, curriculum development, reporting and feedback, applying different tools / strategies (e.g. IT, games, etc..) Especially, in the old days (from 1970s to 1990s), teachers could not easily gain access to different types of teaching assistance. The Association helps a lot in those days by arranging different types of sharings and thus some activities are always full (e.g. Exam paper review, sale of certain teaching references and tools.) In fact, the most valuable teachers' activities should be those with sharing sessions in different conferences, seminars, symposium, etc.

Other than communication amongst local groups, the Association also participate or organize some International conferences. One important directive about the International presence is that the Association is one of the founding member of the ICASE (since 1973). Of course, due to the more penetration of various parties in the Hong Kong education sector – the EDB, the HKEAA, the CDC, publishers, tertiary institutes, etc – and with limitation of our resources; the scope and number of teachers' activities have diminished recently. Yet, through different student competitions, we hope teachers could gain insights from the processes and results of such activities.

Amongst so many teachers' activities that the HKASME has organized and / or co-organized, some highlights are::

- New teachers' induction programs (Since 1970s) – is one of the pioneers in this area of assistance to New teachers [esp. useful in the early days when info and professional help is limited. 1980s with Teachers' Centre). However, as many parties provide more supports to teachers and with the diminishing of the Teachers' Centre, this activity has stopped.
- Seminars or surveys about review of curriculum & assessment at different stages (e.g. the 2012 NSS new curriculum and HKDSE). Almost annual presentation of Paper Review (from HKCE & AL to HKDSE) often attract a lot of teachers and even now, some re-run is needed after the Summer.
- Seminars involving different kinds of educators from different background -- Other than teachers, members also include other education professionals (e.g. EDB, HKEAA, other education

institutes, ...)

- Overseas or Cross-border Teachers / educators conference / symposium -- China, US, ... ICASE, ...
- You may gain some insights from the following valuable photos since 1970s ...



Photo1: The 4th

ICASE Asian-Pacific Conference was held at 1982 CUHK, Hong Kong.



>>> Photo2 ??? -- (find some souvenir ... in 2009 Mr Ng Chung Chun left us suddenly in the mid of his chairmanship. Special edition of newsletter and memorable fund had been set up to memorize his contribution to the Association



>>> Photo3: Exhibition booth in 1980s at Hong Kong Teachers' Centre (North Point) Open Day. (Prof. Cheng kai ming, Luk wai ying, Lau Tak Chi).



>>> Photo4: Shanghai and Hong Kong Science Education Symposium (1985, Left 6 is the chairman Dr Nancy Law)



>> Photo5: New Teachers' Orientation Programme for Beginning Teachers 1987

Photo5: New Teachers' Orientation Programme for Beginning Teachers 1987



>> Finding suitable references and / or tools for teaching is always one of the favourite activity in different teachers' activities.



Photo6:



>> Photo7: 2008 Forum "Striving for Better Science and Maths Education"

((_____))

>> Of course, the above are just a few of the life-long activities that the HKASME had held in the 60 years. Most of them exist for some reasons. 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 (60-5)!

((_____))

{{.. 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) Hybrid Car (Solar + Electric + Manual ! -- Yes --> Manual, manpower)



Solar Velomobile -- 1-person car.

Provided with 3 modes of energy supply – the SUN, Li-ion battery and manual.

What is the advantage? -- Ask your students to name them...

Check for more details online at ... Eg./ <https://thepack.news/pedilio-is-a-new-solar-velomobile/>

(ST-2) UK's STEM Careers Week in March-2023

With STEM career opportunities constantly evolving and most careers involving STEM skills, it is important for young people to have a greater awareness of what the industry has to offer. STEM Learning has a commitment to supporting the education of young people to ensure that they are aware of the opportunities within the sector.

Green Careers – what is it? (check ^ below) Do you consider your teaching green? and would you guide your students to think along a career with green background???

** Explore more at ...

https://www.stem.org.uk/secondary/careers/green-careers?utm_campaign=NCW%202023%20-%20Secondary&utm_content=green%20careers%20button&utm_term=&utm_medium=email&utm_source=Adestra

... support include: resources, videos, & general advices

e.g. / poster for download at ...

:: <https://www.stem.org.uk/resources/elibrary/resource/388213/stem-careers-poster>

^ A green career can be any job, role or occupation that contributes to preserving or restoring the environment and our planet. These jobs can be in any industry not just those immediately seen as 'green' like renewable energy, energy efficiency, green technology such as electric cars, improving the environment or agriculture processes.

(ST-3) AI Would you use it? Would your students use it?... ??? How to handle?

Try yourself by logging in to the Midjourney .& ChatGPT and see what you could create!

And, will you try to ignite your students' creativity via this AI-package? :) :) :)



** 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 updates to your students!!!

>> **Youtube:: IYOM 2023 side event**

<https://www.youtube.com/watch?v=QliR0spbb7g>

(S-3) 2023 Science Assessment Test (Secondary 2 and 3)

Purpose:

The purpose of the test is to assess the science process skills of students at *Secondary 2 and 3 levels* in Hong Kong and in nearby regions, and to provide feedback to schools on the strengths and weaknesses of students in the test for the improvement of science teaching and learning.

Assessment Objectives:

The test aims at testing participants' science process skills, which include *observing, classifying, measuring, planning and designing, inferring and predicting, and communicating*.

Target:	Secondary 2 and 3 students
School-based Test*:	For enrolment, a school has to present 15 or more students for the test.
Date & Venue:	Apr 20, 2023 (Thu) – May 5, 2023 (Fri) (To be arranged by the teacher coordinator in his/her own school)
Paper Language:	Bilingual (中英對照)
Enrollment Fee:	HK\$60 per student
Website:	http://www.hkasme.org/ (PROJECTS 專題項目> Science Assessment Test 科學評核測驗)
Application Deadline:	Mar 31, 2023 (Fri)
Release of Results:	Jun 29, 2023 (Thu)

* *No centralized test will be administered for the 2023 SAT.*

Test Content:

The test is based on the knowledge and skills acquired by S1 and S2 students as outlined in Science (S1-3) Curriculum Guide¹ (2017) published by the Curriculum Development Council of the Education Bureau of the Hong Kong Special Administrative Region. However, participants are not required to recall facts and knowledge from the curriculum.

Some questions in the test are set on unfamiliar situations. For such questions, sufficient information will be provided to participants so that they should be able to know what the questions are expected of and can apply their skills in tackling the problems.

Test Specifications:

(1) Test duration:	1 hour (~35 minutes for the multiple-choice questions; ~25 minutes for the short-response questions)
(2) Test paper:	24 multiple-choice questions; 2 short-response questions

Collection of Test Materials & Return of Answer Scripts

- Each participating school should assign a member of its staff to collect the question papers and materials from HKASME office before the test, and to return all test materials to HKASME immediately after the test for marking.

Certificate and Brief Report for Student:

- A **certificate** will be issued to each student indicating the award he/she has achieved. There will be five levels of award namely, *Diamond* (highest), *Gold*, *Silver*, *Bronze* and *Participation*. Participants who have demonstrated a fundamental mastery of the science process skills will be awarded a Bronze Award, while the best 5% will be awarded a Diamond Award. An expert panel

¹ [https://www.edb.gov.hk/attachment/en/curriculum-development/kla/science-edu/Science\(S1-3\)_supp_e_2017.pdf](https://www.edb.gov.hk/attachment/en/curriculum-development/kla/science-edu/Science(S1-3)_supp_e_2017.pdf)

of the HKASME will decide, based on the performance of the participants, the cut-off marks for the Gold and Silver Awards.

- A **brief report** will be given to each student indicating the choice he/she has made, the key and the overall correct percentage for each M.C. question.

Question Paper and School-based Report for Teacher Coordinator:

- Each teacher coordinator will receive the **question papers with the MC keys** and the **marks** for all his/her students.
- For schools that have presented **30 or more students** for the test, the teacher coordinator will receive a **school-based report** outlining an analysis of the strengths and weaknesses of his/her students.
- A **dissemination seminar** will be held on **Jun 30, 2023 (Fri)** to share the findings and students' performance in the test. It is **restricted to** the teacher coordinators.

Enrollment:

Please complete the attached enrolment **EXCEL** file and return it by email to project@hkasme.org; and send a crossed cheque payable to "HKASME LTD" with the appropriate total amount (**HK\$60 per student**) by post on or before **Mar 31, 2023 (Fri)** to the address below.

Attn: Ms CHU Bik Ha
Hong Kong Association for Science and Mathematics Education
Rm 114, 1/F, Po On Court, 1 Po On Road, Shum Shui Po, Kowloon
(Re: 2023 Science Assessment Test)

Please note that the **enrollment fee is non-refundable**.

Enquiry:

Please contact Ms CHU at 2333 7602 or email project@hkasme.org for any enquiries.

2023 Science Assessment Test Tentative Schedule

Date	Description
Mar 31, 2023 (Fri)	● Deadline of enrolment
Apr 19, 2023 (Wed) – May 3, 2023 (Wed)	● Collection of test materials from HKASME office by participating schools
Apr 20, 2023 (Thu) – May 5, 2023 (Fri) ^{Note 1}	● SAT school-based test (Normal schedule) ● Conduct of the test by participating schools
May 6, 2023 (Sat) – May 12, 2023 (Fri) ^{Note 2}	● Make-up school-based test for absentees due to COVID-19 infection
May 15, 2023 (Mon)	● Last day for returning of answer scripts & other test materials to HKASME office
Jun 29, 2023 (Thu) – Aug 25, 2023 (Fri)	● Collection of school-based reports & certificates from HKASME office
Jun 30, 2023 (Fri)	● Debriefing seminar

Note 1: Schools are advised to arrange the SAT test within this period from Apr 20 to May 5. Absentees from the test due to COVID-19 infection are allowed to sit for the "Make-up" test to be held later.

附註 1 學校應安排科學評核測驗於 4 月 20 日至 5 月 5 日期間舉行。因 COVID-19 感染而缺席測驗的學生可於稍後時間獲安排補測。

Note 2: If Note 1 above applies, participating schools should arrange, in the period from May 6 to May 12, a "Make-up" test for students who have been absent from the originally scheduled SAT test.

附註 2 如出現附註 1 的情況，參與學校應於 5 月 6 日至 5 月 12 日期間，為缺席原定科學評核測驗的同學安排補測。

** Chemistry News **

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



{Submission date for **Batch-2**: 31/03/2023}

<< For submission details, please check online : www.hkasme.org >>

*** Notes on queries and some **FAQ** about this “Csme60 Competition” :

Thanks for supporting the activity as there are queries about different details of the competition. And, at the time of writing, some submissions have already been received (to our surprise!) Though we have referred this competition to that about IYPT-2019, there will not be monthly submission like the IYPT-2019. The 2nd batch of collection is due by 31/03/2023.

Another query is about the type of presentation. Actually, we welcome any mode of presentation – so long they fits in the main aim of this competition. We would like students to try different possible presenting skills and to encourage them to explore links between the knowledge (characteristics of elements and their stories) to meet the very slim limits set in the regulation. So, we won't limit the presentation to just one mode – and don't ask if “poster” is allowed. From past experience, students are much creative than we estimate – we could disclose that some already submitted designs already have very good ideas and mode of presentation. In past competition, we have received a lot of different designs: writings (in poems, in different text version, ...), drawings with different characteristics, cartoons, animations, posters, conversation,

More reference could be obtained by checking the file “Results and Reports of the Batch-1 Competition” which is available online at www.hkasme.org

BATCH-2 Regulations

“Chemical Celebration of HKASME-60” 2nd Due Date: 31-03-2023
Competition to celebrate the 60th Anniversary of HKASME (慶祝 HKASME 60 年 [2024])

This “**Chemical Celebration of HKASME-60**” competition is a modified re-run to celebrate the “60th Anniversary of the Hong Kong Association of Science and Maths. Education” (since 1964). It aims to promote the interest of students in learning Chemistry, with elements and their applications,

and developing students' communication and science process skills through article writing 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) and use their features to celebrate the 60th Anniversary of HKASME (2024).

- Rules for the competition** (Check notes in another file).
- The article could be in either Chinese or English.
 - Each article 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 (check Batch-1 Report!).
 - Students should choose a number of element(s) and present their special features, linking to the 60th Anniversary of HKASME (2024). Focus of the competition is to call for students' science-related knowledge and skills, communication skills and creativity in relation to **elements as building blocks**. Must explain the link in another file: Supplement Document File [download sample file].
 - Atomic nos. of chosen elements should make up to “60”. [Check examples in Note File].
 - *No school logo or name is allowed. **The “SME*60” or similar message MUST be in the article.**
 - Student's name+element-No. should be used as submitted filename (e.g. ChanTM_60).**
 - Students' data should be stated on the Submission Form (available from WWW).
 - *The maximum number** of participants from **EACH school is 10** for this batch.
 - Submission of all files should be via email – csme60@hkasme.org with specific filenames (see examples in “Note file”)

Submission Submission due date **for Batch-2 is 31/03/2023**. All participants should hand in their **articles & SuppFile, together with the “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 this batch (Mar-2023) as “**Best Chemical Celebration of HKASME-60**”. The article will be posted online. The winner will have a certificate and \$400 coupons.
 - Two other outstanding articles may be awarded for each batch. Each outstanding article will have an outstanding 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 Celebration 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 regarding the competition may contact HKASME at Tel: 2333 0096 / 23337602.

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

Supplementary File for Competition: “ Chemical Celebration of HKASME-60”

<Batch-2>

Class:	Name:	email:
School:		
Chosen Element(s):		Title of the article (if any):
Filename submitted:		
** Reminder: The “SME*60” or similar message MUST be in the article.		

Link between the designed article and the SME*60 Celebration: (maximum ONE A4 page).

notes for Competition: “ Chemical Celebration of HKASME-60”

< BATCH-2 (Mar-2023) >

- This note is a reference for students to design their articles for the captioned competition (Batch-2). Other than the restrictions listed in the regulation, different kinds of materials and presentation skills could be used. Remember that the judging criteria would follow the main aim of this activity – to celebrate the 60 years of professional science education. Of course, students could also get reference from “Report of Batch-1 and the students’ quote (Batch-1)”.
- Main aim – to use characteristics of chosen element(s) to celebrate the 60th Anniversary of HKASME. Students need to explain briefly how their articles link with the above aim in another document (maximum one A4 page for the supplementary file). *Filename: NAME+suppdoc (e.g. ChanTM_suppdoc)*
- **Documents to be submitted:** (1) Student’s **main article** (at most TWO A4 pages) – *Filename: NAME+At.nos. used (e.g. ChanTM 59+1).* (2) Student’s writing to explain the link between the article and the celebration and / or principles behind the design (e.g. **ChanTM 59+1 SuppDoc**). And (3) Teacher’s document: the completed **Submission Form** (available online). That is, each student has to prepare TWO files for the competition.
- **Each article must include chemical element(s) with atomic number(s) that make up to “60”:**
 - ✓ E.g./ (1) 60: the element Nd; (2) 59+1: elements Pr & H; (3) 61-1: Pm & H;
 - ✓ (4) 40+20: Ca & Zr... (5) 3 x 20: Li & Ca; (6) 2 x 30: He & Zn
 - ✓ etc...{That is, any combination of elements with atomic numbers that make up to “60” is alright.}

- (j) **Presentation mode:** There is no limitation to the type of presentation modes in your design. That could be plain writing, poem, pictures, cartoon, or mixed. There is also no limitation to how the elements chosen are to be presented. **For Batch-2, there is an added rule: **“The “SME*60” or similar message MUST be in the article.”**

- About the history and details of the HKASME, students could check for ALL events in the past years at www.hkasme.org Main reference file from Batch-1: (1) REPORT file with Students’ Quotes – both could be downloaded from www.hkasme.org.

** **Files to be submitted should follow the format as indicated below:** -- Maximum no. of students is SIX for EACH School.

Student’s article (at most two A4 pages) – *Filename: “NAME + atomic nos chosen” (e.g.ChanTM+60)*

- (1) * **Student’s supplementary file** – *Filename: “NAME+Supp_Doc” (e.g. ChanTM_Supp_Doc)*
 (2) * **Teacher’s Submission Form** – *Filename: “SchoolNAME” (e.g. SMESchool)*

* **Sample file for (2) and (3) could be downloaded at www.hkasme.org** (> Chemistry)
 Remember to change the filename before you submit.
 Submission by ONE responsible teacher via email ONLY -- csme60@hkasme.org (Batch-2 due by 31/03/2023).

**”Chemical Celebration of HKASME-60 ” Competition – “BATCH-2”
for Hong Kong Secondary Schools (2022-2023)**

➤ **Submission Form (Mar-2023)**

- [Submission deadline for Batch-2: 31 Mar 2023 (FRI)]
- >> **Email this form & students’ article-files to : csme60@hkasme.org**
- To: Hong Kong Association for Science and Mathematics Education,
- I nominate _____ students⁽¹⁾⁽²⁾ to participate in the captioned competition. I certify that all entries are the original work of my students. The following are details of the participating students and their articles:

Participating Student(s): ^{(1)(2)(#)}		
Student A		
Class:	Name:	email:
Chosen Element(s):		Title of the article (if any):
Filename submitted: (1) _____ ; (2) _____		
Student B (if any)		
Class:	Name:	email:
Chosen Element:		Title of the article (if any):
Filename submitted: (1) _____ ; (2) _____		
Student C (if any)		
Class:	Name:	email:
Chosen Element:		Title of the article (if any):
Filename submitted: (1) _____ ; (2) _____		
Responsible Teacher: Mr / Ms*		Email:

* Please delete as appropriate

(#) Use another page for more participants – MAXIMUM is 10.

Note: (1) Each school can nominate up to 10 students.

(2) Each student can only submit one entry.

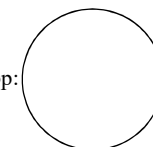
School Name: _____

School Chop: _____

School Tel. No: _____

Signature of Teacher: _____

Date: _____



(C2) Chemistry Mock Exam (Feb-2023: Results & Reports ... -- All exams had been completed. Results available by Feb. Check Details at www.hkasme.org

(C3) Hong Kong Chemistry Olympiad for Secondary Schools (2022-23)

The Hong Kong Chemistry Olympiad for Secondary Schools is a project learning competition jointly organized by the Hong Kong Association for Science and Mathematics Education (HKASME), the Hong Kong Chemical Society and the Royal Society of Chemistry. It aims at promoting the interest of students in learning Chemistry and developing students' problem solving, communication and science process skills through project learning.

Details of the Olympiad are given below:

Theme	Waste. Second Life. Chemistry (廢. 再生. 化學)
Participants	Each team comprises three to five Secondary 3-6 students and each school can present a maximum of two teams of students to compete in the Olympiad.
Rules for the competition	<p>(k) Students will design and work on their own project in school. The project should include experimental work.</p> <p>(l) Each team of students should write up a report to give a concise and well-ordered account of their project including the objectives, an abstract of not more than 200 words, principles, experimental methods, presentation and interpretation of results, discussions, conclusions and references.</p> <p>(m) No school logo or name should appear on any works, otherwise participants will be disqualified.</p> <p>(n) The Competition consists of two rounds. A preliminary screening based on the written reports and all presentation materials will be conducted. <u>The best 6-10 teams</u> (approximate) will be invited to attend the Final Round Competition.</p> <p>(o) During the Final Round Competition, each team is allowed to give a 10-minute presentation, including a maximum of 7 minutes to report their project and 3 minutes to play the video showing their experiment. After each presentation, there will be <u>7 minutes</u> for the team to respond to questions raised by the panel of judges and the audience. The softcopies of PowerPoint, video, report, abstract and summary should be stored in a CD-R and submit to the HKASME before the Final Round Competition.</p> <p>(p) If finalist teams participate in other competitions, they should notify the organizing committee as soon as possible so that proper arrangement could be made.</p> <p>(q) Students can only use either Chinese or English in their project report/website and presentation. Mixed mode of both languages is not allowed.</p> <p>(r) Schools will be responsible for the production costs of their projects.</p>
Adjudication	<p>The panel of judges comprises representatives from the organizers. All projects will be judged according to the following criteria:</p> <p>(a) whether the project is relevant to the theme of the Olympiad,</p> <p>(b) whether the chemical principles described are sound and whether the methods used are reliable,</p> <p>(c) whether the project describes a novel but significant experience and can be used or applied in other areas,</p> <p>(d) whether the presentation is clear and convincing, and</p> <p>(e) other criteria as deemed appropriate by the panel of judges.</p>

The preliminary screening will focus on the quality of projects. The final adjudication will focus on the overall performance of the team on the day of the final round competition.

Deadline for 31 March, 2023 (Fri before 5:00 p.m.)

Submission (to the HKASME office)

- Awards**
- Gold, silver and bronze medals will be presented to members of the first three winning teams.
 - A trophy will be presented to the school of the champion team for its retention for one year.

- Certificates and souvenirs will also be given to all members of the finalist and commendable teams.
- Enquiries** Enquiries regarding the Olympiad may be directed to Miss CHU of HKASME at 2333 0096, For more details, please visit our website: www.hkasme.org.
- Copyright** The organizers reserve the right to publish in full or part of the entries. All entries will not be returned to schools.
- Safety Matter** All participating schools should take all necessary safety precautions and obey laws announced by Education Bureau and other authorities.

Schedule for Hong Kong Chemistry Olympiad for Secondary School 2022-2023

Date	Detail
Nov. 5, 2022 (Sat)	<p>☞ Briefing Session with Science Talk</p> <p>Venue: Newman Catholic College, G/F., 2 Cliff Road, Yau Ma Tei, Kowloon.</p> <p>Time: 9:30 a.m.– 11:00 a.m.</p>
Jan. 9, 2023 (Mon) Before 5:00pm	<p>☞ Deadline for submission of application forms for the Olympiad.</p> <p><i>An application form (Appendix I) is attached.</i></p>
Mar. 31, 2023 (Fri) Before 5:00pm	<p>☞ Deadline for submission of written reports and any supporting materials (for website report, please store in a CD-R). All materials should be submitted through the Responsible Teacher to:</p> <p>Mr. Ricky Yeung Room 114, 1/F, Po On Court 1-15 Po On Road, Sham Shui Po, Kowloon.</p>
Apr. 21, 2023 (Fri)	<p>☞ Announcement of result for entering (around 6-10 teams)</p>
May 13, 2023 (Sat)	<p>☞ Final Competition and Award Ceremony</p> <p>Time: 9:00 a.m. – 1:00 p.m.</p> <p>Venue: Newman Catholic College, 2 Cliff Rd, Yau Ma Tei, Kowloon.</p>

(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\$:			

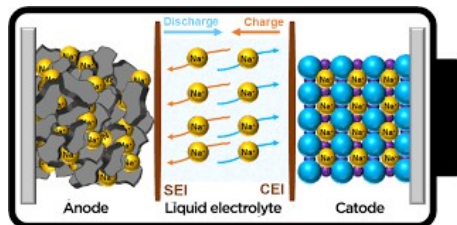
Teacher-in-charge:			Sign:	
Mobile no.:				
Sch. Tel:			Email:	
Sch Fax no:		School Name:		
Address				
Date:		Cheque no/cash:		

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".

(C5) Sodium Comes to the battery world -- Why Sodium? Instead of Li?

-- Sodium-ion technology is ready -- cheaper and safer!

>> Clarios is converting part of its Michigan lithium ion battery plant to make sodium-ion batteries.

> For details, please check ...

https://cen.acs.org/business/inorganic-chemicals/Sodium-comes-battery-world/100/i19?utm_source=NonMember&utm_medium=Newsletter&utm_campaign=CEN

Biology News

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

ALL Round 1 results had been completed and certificates issued to ALL participants. Those match criteria for 2nd Round competition (18/2/2023) had been notified. ALL participants had been posted online.

⇒ And, finally the 2nd Round at HKU had been completed on 18/2/2023.

⇒ Check final results online !!!

Hong Kong Biology Literacy Award (2022-2023)

Three-minute Presentation Contest cum Prize Presentation Ceremony Results

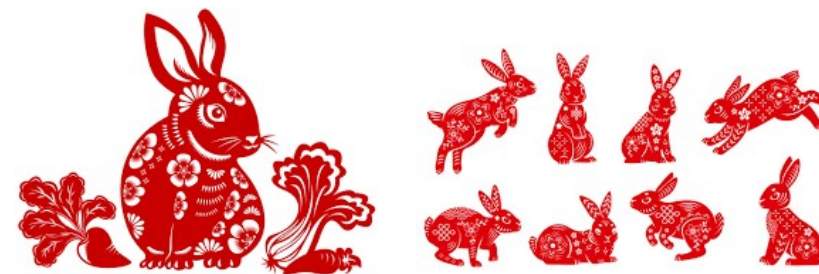
<u>Winning Teams</u>	<u>Topics</u>	<u>Awards</u>
Baptist Lui Ming Choi Secondary School – Group 1	Artificial intelligence in biology	Champion
PLK Centenary Li Shiu Chung Memorial College – Group 2	Environmental DNA	First-runner up
Sheng Kung Hui Tsang Shiu Tim	4D printing and Tissue	Second-runner up

Secondary School – Group 1	engineering	
PLK Centenary Li Shiu Chung Memorial College – Group 1	Sustainable Diet	Third-runner up
PLK Centenary Li Shiu Chung Memorial College – Group 1		Best Response
SALEM-Immanuel Lutheran College – Group 1		Best Response

(B-2) How do Rabbits contribute to biodiversity?

Rabbits conspicuously alter plant species composition and vegetation structure through grazing and seed dispersal, which creates open areas and preserves plant species diversity.

Check for more at <https://pubmed.ncbi.nlm.nih.gov/18680504/>



.....

“ Protecting Biodiversity, Protecting Life”

Maths News

第二十五屆香港青少年數學精英選拔賽

- 比賽主辦機構：
全港青年學藝比賽大會、保良局、香港數理教育學會
- 比賽主旨：
本項比賽舉辦的目的在於提高初中學生學習數學的興趣，同時亦希望在比賽中提升參賽者數理的能力，這比賽與保良局所主辦的另一比賽香港小學數學精英選拔賽的宗旨一脈相連。
- 比賽時間：
2023 年 2 月 4 日(星期六) 上午 8 時 45 分至 11 時 30 分
- 比賽截止報名日期：
2022 年 11 月 3 日(星期四)
- 比賽地點：
(一) 保良局朱敬文中學(沙田大圍隆亨村)
(二) 保良局姚連生中學(荃灣石圍角邨)
(三) 港島民生書院(香港西灣河太安街 26 號)
(四) 保良局唐乃勤初中書院(深水埗美孚新邨美荔道)

程序：

- (一) 上午 8 時 45 分至 9 時 10 分 參賽者報到
(二) 上午 9 時 10 分 進入比賽場地
(三) 上午 9 時 25 分 比賽開始
(四) 上午 11 時 25 分 比賽結束

每個場地均設有領隊老師休息室，籌委會將於比賽開始半小時後派發比賽題目予老師參考。

比賽形式：

所有代表須個別作答一份中英對照的題目。全卷二小時。題目分甲、乙兩部份，甲部只須寫出答案，乙部作答則須列明步驟。所有答案均須寫在答題紙上。

參賽須知：

- (一) 比賽時不准使用計算機或四位數字表等計算工具，量角器及圓規等工具亦不准使用。
- (二) 如在比賽中有任何意見，須於當日向賽事組提出。所有提出之問題，將由賽事組作最後裁決。
- (三) 賽例如有修改，以比賽當日宣佈為準。另賽事期間的宣佈以廣東話進行。

獎項：

(一) 個人獎項：個人成績最好的 30 名學生將獲頒一等獎獎狀及獎座(前 4 名則獲頒獎盃)，並可參加由香港數理教育學會統籌的免費數學培訓課程(註)。如有合適的國際數學比賽，在培訓課程中成績最好的 4-8 名學生(需符合該國際比賽的年齡要求)將有機會代表香港參賽，費用全免。另成績優異但未能入選前 30 名的學生，將按成績頒發二等獎獎狀、獎座及三等獎獎狀。

(二) 團體獎項：計算每所學校參賽學生積分總和，獲最高分數之二十所學校將獲頒獎座。

成績發佈：

比賽成績及花絮將於三月中旬上載至網頁(<http://www.hkymhasc.org>)。

頒獎安排：

頒獎典禮暫定於 2023 年 5 月 6 日上午假保良局唐乃勤初中書院舉行，比賽成績及頒獎安排將於三月中旬專函通知各參賽學校。請到網頁 www.hkymhasc.org 瀏覽更多比賽詳情及章則，及下載報名表格。

Physics News

(P-1) Physics Mock Exam in Dec-2022 (30th & 31st – ALL completed with results issued ...

ALL centres event completed. Self-administration at your own school ongoing.
Results expected to be available by Feb. Check details online www.hkasme.org

2023 趣味科學比賽《恰到好處》－比賽結果

由香港學者協會、香港數理教育學會、香港教育工作者聯會和康樂及文化事務署香港科學館合辦，田家炳基金贊助的 2023 趣味科學比賽【恰到好處】已於 2 月 11 日(星期六) 在香港科學館舉行。

高級組的參賽隊伍共有 90 隊，而低級組則有 117 隊參賽隊伍。經過一輪激戰後，低級組在『低班組輕量組』、『低班組重量組』及高級組在『高班組輕量組』、『高班組重量組』的比賽結果如下：

低年級組輕量組

學校	隊員 1	隊員 2	獎項
保良局何蔭棠中學	李翠盈	簡國亮	一等獎、最佳設計獎
香港四邑商工總會陳南昌紀念中學	何卓霖	何軍麒	一等獎
佛教何南金中學	江衍君	江衍呈	一等獎
佛教何南金中學	馬芷君	殷紫琪	一等獎
新生命教育協會平安福音中學	黎芷僑	蘇偉瑩	一等獎
加拿大神召會嘉智中學	郭得	蔡頌華	二等獎
加拿大神召會嘉智中學	莫森輝	梁樂歡	二等獎
香港道教聯合會圓玄學院第三中學	吳銘軒	王曦宇	二等獎
中華傳道會安柱中學	陳恩輝	祝馥怡	二等獎、最佳工藝獎
香港神託會培敦中學	林寶杰	吳兆康	三等獎
皇仁舊生會中學	蕭頌霖		三等獎
文理書院(香港)	黃紫峻	羅梓峰	三等獎
基督教聖約翰教會堅樂中學	許霖傑	巢晉宇	最佳設計圖獎

低年級組重量組

學校	隊員 1	隊員 2	獎項
福建中學	蔡柱熙	戴健愷	一等獎
迦密愛禮信中學	吳梓熙	劉俊麟	一等獎
十八鄉鄉事委員會公益社中學	張婉儀	趙若希	一等獎
皇仁舊生會中學	余坤		一等獎
迦密愛禮信中學	陳彥希	曾諾軒	二等獎
中華傳道會安柱中學	黃楷迪	李柏璋	二等獎、最佳設計圖獎、最佳工藝獎
五育中學	吳澤恆		二等獎
天主教郭得勝中學	譚靖璇	劉澤森	二等獎
嶺南中學	陳曉慧	趙穎恩	三等獎
聖公會李炳中學	蔡旻熹	李禮豪	三等獎
寶覺中學	羅睿龍		三等獎
循道衛理聯合教會李惠利中學	黎凱澄	李嘉美	三等獎
孔聖堂中學	何文浩	馬姬妍	最佳設計獎

高年級組輕量組

學校	隊員 1	隊員 2	獎項
保良局何蔭棠中學	郭家豪	周琳昊	一等獎
佛教何南金中學	張慶捷	陳黃彥	一等獎、最佳設計圖獎、最佳工藝獎
龍翔官立中學	徐小茵	黃啟明	一等獎
皇仁舊生會中學	陳翰泓	曾康寧	一等獎
佛教何南金中學	馮家杰	陳龍就	二等獎
香港道教聯合會圓玄學院第三中學	黃日明	鍾承劬	二等獎
香港基督教服務處培愛學校	梁嘉圻	文浩軒	二等獎
瑪利諾修院學校(中學部)	朱蔚瑤	孫珞瑚	二等獎、最佳設計獎
潔心林炳炎中學	林佳頤	鍾恩翹	三等獎
天主教鳴遠中學	王任重	洪子軒	三等獎
瑪利諾中學	謝莉余	杜慧琳	三等獎
香港中國婦女會馮堯敬紀念中學	黃景鴻	鄭愷諾	三等獎

高年級組重量組

學校	隊員 1	隊員 2	獎項
保良局何蔭棠中學	林梓軒	馮俊傑	一等獎
福建中學	劉家軒		一等獎
香港仔工業學校	鄧斌豪	劉一明	一等獎
皇仁舊生會中學	鄭梓浩	鄭振強	一等獎
嶺南中學	吳佳暉	周文菲	二等獎
基督教聖約教會堅樂中學	叶尚霖	林睿鑫	二等獎
保良局馬錦明中學	謝嘉誠	劉柏志	二等獎、最佳設計獎
文理書院(香港)	蘇穎軒	邵瀚平	二等獎
聖公會李炳中學	莊詠榆	陳穎	三等獎
嘉諾撒聖瑪利書院	梁洛嘉	李欣婷	三等獎、最佳設計圖獎
保良局馬錦明中學	王子諾	蔡家寶	三等獎
五育中學	葉子匡	梁偉滔	三等獎
香港基督教服務處培愛學校	何心怡	吳詠儀	最佳工藝獎

教育多媒體學與教資源目錄

幼稚園：



幼稚園教育

小學：



中國語文教育



普通話科

English Language
Education

數學教育



小學常識科

中學：



中國語文教育

English Language
Education

數學教育

公民與社會發展科/
通識教育科個人、社會及
人文教育科學教育
(中一至中三)科學教育
(中四至中六)

其他：



價值觀教育



全方位學習

其他學習領域/
教育層面

家長/教師資源

教育多媒體學與教資源目錄

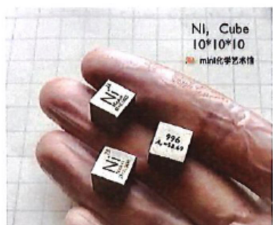
Resources Collection --- Continue Celebrating the IYPT-2019 (International Year of Periodic Table) ... -

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

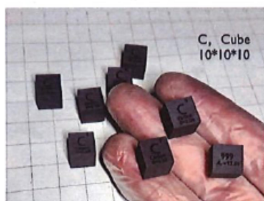
ALSO be used as tools for your students to plan their “Experience Package” for the NEW competition “My experience with the Periodic Table” for IYPT-2019(HK).

--- 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! ...

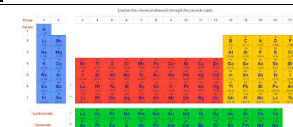
>> YES, check Chem News Section!

** 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 !!!