

	<i>Key Learning Area/ Subject</i>	<i>Title</i>	<i>For the attention /action of</i>	<i>Remarks</i>	<i>Annex</i>
ii)	Gifted Education / Science, Technology and Mathematics Education	“Developing Students’ Innovation Competency through Advanced STEM Learning Experiences” - Student Conference	School heads, co-ordinators and teachers for STEM education	Application Deadline: 31 March 2021 (Wednesday)	3
iii)	Physical Education	“Pandemic Challenge – Fitness Challenges at Home” Scheme	School Heads, Physical Education Panel Chairpersons and Teachers	-	4
iv)	Science Education	Chemical Safety Poster and Sticker Design Competition 2021	School heads, panel chairpersons and teachers of General Studies	Deadline for submission of entries: 7 May 2021 (Friday)	5
v)	Science Education	Croucher Science Week 2021	School heads, panel chairpersons and teachers of General Studies	Application period: Starting from 25 February 2021	6
vi)	Science Education/ Technology Education/ Mathematics Education	STEM-Up HK Innovation and Technology Competition	School heads, panel chairpersons and teachers of Mathematics and General Studies	-	7

b) For secondary schools:

	<i>Key Learning Area/ Subject</i>	<i>Title</i>	<i>For the attention /action of</i>	<i>Remarks</i>	<i>Annex</i>
i)	Chinese Language Education	小嘴巴·說大道理——普通話電台四大名著廣播劇比賽(2020/21學年) (Chinese version only)	School heads, Putonghua and Chinese Language teachers	Submission deadline: 9 February 2021 (Tuesday)	1

	<i>Key Learning Area/ Subject</i>	<i>Title</i>	<i>For the attention /action of</i>	<i>Remarks</i>	<i>Annex</i>
ii)	Gifted Education	International Mathematical Olympiad Preliminary Selection Contest - Hong Kong 2021	Panel chairpersons and teachers of Mathematics	Please refer to the website of the Hong Kong Academy for Gifted Education Application Deadline: 8 March 2021 (Monday)	2
iii)	Gifted Education / Science, Technology and Mathematics Education	“Developing Students’ Innovation Competency through Advanced STEM Learning Experiences” - Student Conference	School heads, co-ordinators and teachers for STEM education	Application Deadline: 31 March 2021 (Wednesday)	3
iv)	Physical Education	“Pandemic Challenge – Fitness Challenges at Home” Scheme	School Heads, Physical Education Panel Chairpersons and Teachers	-	4
v)	Science Education	Chemical Safety Poster and Sticker Design Competition 2021	School heads, Science Education Key Learning Area coordinators and teachers	Deadline for submission of entries: 7 May 2021 (Friday)	5
vi)	Science Education	Croucher Science Week 2021	School heads, Science Education Key Learning Area coordinators and teachers	Application period: Starting from 25 February 2021	6
vii)	Science Education/ Technology Education/ Mathematics Education	STEM-Up HK Innovation and Technology Competition	School heads, coordinators and teachers of the Science Education, Technology Education and Mathematics Education Key Learning Areas	-	7

3. Details and Application Forms of the above activities and events are stipulated in the respective Annexes.

Enquiry

— 4. In view of the latest development of the Coronavirus Disease 2019 (COVID-19) infection, details of the activities are subject to changes. For enquiries, please contact the respective **contact person** as listed in the respective Annexes.

Ms Edith Y C TSE
for Secretary for Education

c.c. Heads of Sections – for information

小嘴巴·說大道理——
普通話電台四大名著廣播劇比賽（2020/21學年）
(Chinese version only)

宗旨/目標

本附件旨在邀請全港中小學報名參加上述比賽。

詳情

2. 由香港中華文化發展聯合會（文聯會）主辦，語常會支持及語文基金撥款的「小嘴巴·說大道理——普通話電台四大名著廣播劇比賽」（2020/21學年）現正接受報名。活動旨在為中小學生營造趣味盎然的學習環境，以增強學生的創作能力及普通話應用能力；鼓勵學生多讀中國古典文學作品，並認識當中豐富的文化內涵，以達至多元發展。

3. 有關活動詳情及報名方法，請瀏覽主辦機構網頁 (<http://pthrdc.org/activity/>)。比賽截止報名日期為2021年2月9日(星期二)。



聯絡人

4. 如有查詢，請致電2523 0800 與文聯會秘書處鄭小姐聯絡。

International Mathematical Olympiad **Preliminary Selection Contest – Hong Kong 2021**

Aims / Objectives

This is to invite secondary schools to nominate their students to take part in the captioned competition.

Details

2. The International Mathematical Olympiad (IMO) Preliminary Selection Contest – Hong Kong 2021 (Contest) aims at heightening students' interest in learning mathematics while providing enhancement training for students with high potential in mathematics. The Contest is co-organised by the Education Bureau, the Hong Kong Academy for Gifted Education (HKAGE) and the IMO Hong Kong Committee.

3. The Contest will be held in the morning on **22 May 2021 (Saturday)**. A series of mathematics enhancement programmes will be arranged for the high-achieving students in the Contest. Those students with outstanding performance in the enhancement programmes would be selected to represent Hong Kong to participate in the 63rd IMO and national mathematics competitions to be held in 2022.

4. For details of the Contest, including background information, regulations of the Contest and procedures for the Online Registration, please browse the website of HKAGE <https://www.hkage.org.hk/en/competitions/detail/6285>. Besides, the invitation letter from the IMO Hong Kong Committee and past papers of the Contest have also been uploaded to the above website for reference.



5. Schools wishing to nominate students for the Contest are required to register through the above website from **now to 8 March 2021 (Monday) by 12:00 noon**. Principals, teachers and nominated students are advised to check the results of the nomination, seating arrangement for student participants and other relevant details which will be released on **3 May 2021 (Monday)** through the above website. **No further notifications will be given.**

Contact Person

6. For enquiries, please contact HKAGE on 3940 0101 or by email to imoprelim@hkage.org.hk.

“Developing Students’ Innovation Competency through Advanced STEM Learning Experiences” - Student Conference

Aims / Objectives

This is to invite primary and secondary schools to nominate their students to take part in the captioned event.

Details

2. The project “Developing Students’ Innovation Competency through Advanced STEM Learning Experiences” is organised by the Education Bureau (EDB), which consists of a series of training programmes and a research mentorship programme on STEM education for primary and secondary students. It aims to develop and further enhance students’ knowledge and skills on STEM-related disciplines, as well as to develop STEM and innovation competency of students. The project has been commissioned to the Hong Kong University of Science and Technology (HKUST), and the teaching staff of the HKUST designed and delivered the programmes. After completing the STEM-related training programmes, selected participants conducted research and investigation on STEM-related themes according to their research interest and ideas under the guidance of the university teaching staff.

3. The research and investigation conducted by students cover a wide range of STEM-related areas such as Robotics and Artificial Intelligence, Smart Devices, Food Chemistry, Life Science and Physical Science. In order to showcase students’ learning outcomes from their research and investigation and promote STEM education among primary and secondary schools, the EDB will organise a student conference with the HKUST on 17 April 2021 (Saturday). The details of the student conference are available in Appendix 3a and at the website of the Academy for Bright Future Young Engineers, HKUST: <https://abfye.ust.hk/announcement/student-conference>.



4. Schools wishing to nominate their students for the conference are required to register through the above website. Teachers who are interested to attend the conference please apply via the EDB Training Calendar System (Course ID: CDI020211029). The deadline for the registration is **31 March 2021 (Wednesday)**. Successful schools will be notified by e-mail on or before 7 April 2021 (Wednesday).

5. Subject to the latest development of COVID-19, the conference may be conducted online. The mode of the event will be announced on the above website of the HKUST in due course.

Contact Person

6. For enquiries, please contact the Academy for Bright Future Young Engineers, HKUST on 3469 2706 or by email to abfye@ust.hk.

Developing Students' Innovation Competency through Advanced STEM Learning Experiences – Student Conference

Date: 17 April 2021 (Saturday)

Time: 10:00 am – 1:00 p.m.

Venue: The Hong Kong University of Science and Technology (HKUST)

Programme Rundown

Time	Programme
09:45 – 10:00	Registration
10:00 – 10:10	Opening Ceremony
10:10 – 10:40	Keynote Speech Topic: Unlocking the Secrets to Promote STEM Learning Speaker: Prof. Woo Kam-tim <i>Associate Professor of Engineering Education, Department of Electronic & Computer Engineering, The Hong Kong University of Science and Technology</i> <i>Director of Center for Global and Community Engagement</i> <i>Associate Director and Academic Director of Center for Education Innovation (Undergraduate Core Education)</i> <i>Associate Director of Academy for Bright Future Young Engineers</i>
10:40 – 11:25	Student Sharing Session and Certificate Presentation
11:25 – 13:00	Poster Presentation on STEM-related research About Robotics and AI, Smart Devices, Food Chemistry, Life Science and Physical Science

The details of the student conference are available at the website of the Academy for Bright Future Young Engineers, HKUST: <https://abfye.ust.hk/announcement/student-conference>. Schools wishing to nominate their students for the conference are required to register through the above website. Teachers who are interested to attend the conference please apply via the EDB Training Calendar System (Course ID: CDI020211029). The deadline for the registration is **31 March 2021 (Wednesday)**. Successful schools will be notified by e-mail on or before 7 April 2021.



Subject to the latest development of COVID-19, the student conference may be conducted online. The mode of the event will be announced on the above website in due course.

“Pandemic Challenge – Fitness Challenges at Home” Scheme

Aims / Objectives

This is to invite primary and secondary schools to participate in the captioned Scheme.

Details

2. The “Pandemic Challenge – Fitness Challenges at Home” Scheme (the Scheme) is jointly organised by the Hong Kong Childhealth Foundation (HKCHF), the Physical Fitness Association of Hong Kong, China (HKPFA) and the Education Bureau (EDB). It aims to encourage primary and secondary students to maintain regular physical activities at home during the pandemic.

3. The Scheme is a special scheme under the School Physical Fitness Award Scheme due to the pandemic. It will last for 12 weeks (4 weeks per cycle and comprising a total of 3 cycles). The physical fitness activities include two levels of difficulty, namely “Elementary” and “Standard”. Students may choose the appropriate level of difficulty according to their abilities and do the exercises at home without using any equipment. On completion of a cycle of the activities, students will be awarded an electronic certificate as a token of recognition. In addition, all participating schools will obtain a certificate of appreciation.

4. Schools are required to upload student information to the electronic platform of the Scheme. The student login account and password will be provided by the organiser, and teachers are requested to distribute the login information to students. For application and details, please visit the HKCHF webpage (https://hkchf.hku.hk/pandemic_challenge_en.php).



Contact Persons

5. For enquiries, please contact:

HKCHF (online registration, data upload and certificate printing)

Tel: 2255 4945, Fax: 2255 4089, e-mail: hkchf@hku.hk

HKPFA (content of activities)

Tel: 2838 9594, Fax: 2575 8683, e-mail: info@hkpfa.org.hk

EDB (safety and other matters)

Tel: 2110 3147, Fax: 2761 4291, e-mail: pe@edb.gov.hk

Chemical Safety Poster and Sticker Design Competition 2021

Aims / Objectives

This is to invite primary and secondary schools to participate in the captioned competition.

Details

2. The Chemical Safety Poster and Sticker Design Competition 2021 is jointly organised by the Chemical Safety and Health Advisory Committee of the Occupational Safety and Health Council (OSHC), the Labour Department and the Education Bureau. It aims to facilitate participants to show their creativity in promoting the message of safe handling of chemicals. Participants are expected to develop a positive attitude towards the safe handling, storage and disposal of chemicals, and hence adopt safe practices.

3. This competition is classified into Primary, Secondary and Open Groups. Participants shall submit one poster and/or one set of four stickers. Winning entries may be modified and adopted for promotional materials by the OSHC. Details of the competition and the application form are available on the OSHC website: http://www.oshc.org.hk/eng/main/awards_campaigns/Chemical_Safety_2021/.



4. Schools interested in nominating their students to participate in the captioned competition shall complete the application form and submit it together with the students' entries by post to the Occupational Safety and Health Council, 19/F. China United Centre, 28 Marble Road, North Point or by delivery to the same address. The deadline for submission of entries is **7 May 2021 (Friday)**.

Contact Person

5. For enquiries, please contact Ms KWOK of the Occupational Safety and Health Council on 2116 5631, or by email (email address: chemical@oshc.org.hk).

Croucher Science Week 2021

Aims / Objectives

This is to invite primary and secondary schools to participate in the captioned event.

Details

2. Croucher Science Week is funded by the Croucher Foundation, and is jointly organised by the Croucher Foundation, the Education Bureau and the Hong Kong Science Museum. It aims to nurture our younger generation's curiosity and encourage them to understand the importance and contribution of science to their daily lives, and thus develop a sense of relevance to science.

3. In view of the Coronavirus Disease 2019 (COVID-19) infection, Croucher Science Week 2021 will be available online, providing Mini Science Shows, Outdoor Tours and Science Talks for schools. For more details of the programmes, please refer to Appendices 6a – 6e or Croucher Science Week website: <https://croucherscienceweek.hk>.



Contact Person

4. For enquiries, please contact Mr Fong of the Croucher Foundation on 2736 6337 or by email (email address: education@croucher.org.hk).

Croucher Science Week 2021 – Mini Science Shows: Explosive Food
(for primary schools)

1. Programme details

The Mini Science Shows will be delivered by Rhys Thomas, a science communicator from the United States. The content of the shows is related to Strand 3 Science and Technology in Everyday Life of the General Studies (P1-6) Curriculum. Details of the shows are as follows:

Explosive Food (for primary schools)

See food in a new light with the Royal Institution of Great Britain. In this exciting demonstration-filled show, journey from food to faeces as scientists show you the incredible, and sometimes disgusting, science behind what we eat. Discover how burning food shows the amount of energy it contains, the biology that powers our amazing digestive system and how to choose food that gives you the energy and nutrition you need to stay healthy. This lively session will quench your thirst for knowledge and feed your hunger for science facts, all with a sprinkling of fire and fun.

Date	Time	Location
From 22.03.2021 (Mon) to 30.04.2021 (Fri)	Duration of show is 30 minutes. Schools can play the video for students on demand from 22 March to 30 April 2021.	Online

Remark: The show will be conducted in English (with Chinese and English subtitles).

2. Application

Schools interested shall register online through Croucher Science Week website (<https://croucherscienceweek.hk>) from 25 February 2021. School will be given access to the show upon successful registration.



Croucher Science Week 2021 – Mini Science Shows: Science Circus Series
(for primary schools)

1. Programme details

The School Tour Shows will be delivered by Rhys Thomas, a science communicator from the United States. The content of the shows is related to Strand 3 Science and Technology in Everyday Life of the General Studies (P1-6) Curriculum. Details of the shows are as follows:

Science Circus Series (for primary schools)

Science Circus (30 minutes)

Rhys Thomas' Science Circus teaches Newtonian physics using a unique blend of science, comedy and circus. Students learn surprising things about gravity through bowling ball juggling, gyroscopic stability through glass bowl spinning, centripetal force with cowboy lariats, centre of balance with a tall unicycle and inertia with the classic tablecloth pull. That's what the Science Circus is all about!

Juggling Numbers (15 minutes)

After 4,000 years of juggling history there's recently been a surge of new tricks. Why? "Siteswap", a simple mathematical model of juggling using numbers to notate juggling patterns, is cleverly revealing new challenges. Science Circus shares the basics of siteswap and how it's used by jugglers around the world.

Stunteddy Tries Science (15 minutes)

A "beardevil" toy tries to get its head around a variety of Science Circus problems using maths, systems analysis, experimentation and fuzzy logic. Comedy, curiosity and scientific reasoning help Stunteddy understand the Physics of Fun. Bearamedics will be standing by.

Date	Time	Location
From 22.03.2021 (Mon) to 30.04.2021 (Fri)	Duration of Science Circus is 30 minutes. Juggling Numbers and Stunteddy Tries Science are each 15-minutes long. Schools can play the video for students on demand from 22 March to 30 April 2021.	Online

Remark: The show will be conducted in English (with Chinese and English subtitles).

2. Application

Schools interested shall register online through Croucher Science Week website (<https://croucherscienceweek.hk>) from 25 February 2021. School will be given access to the show upon successful registration.



Croucher Science Week 2021 – Mini Science Shows: Gear Geeks (for secondary schools)**1. Programme details**

The Mini Science Shows will be delivered by Anturus, a science communication group from the United Kingdom. The content of the shows is related to three units of the Science (S1-3) curriculum: Unit 1 Introducing Science, Unit 11 Force and Motion, and Unit 13 From Atoms to Materials. Details of the shows are as follows:

Gear Geeks (for secondary schools)

In the outdoor world we love gear! It helps keep us safe, it helps keep us dry, it helps us discover the world. But the science and engineering behind the gear is often just as fascinating as the places it helps us explore. This session takes a closer look at the stuff we use to get outdoors, from plastic clothing to recyclable shoes and 3D printed climbing gear. Come and explore the wonderful science of the kit we sometimes take for granted, and maybe you'll become a Gear Geek too!

Date	Time	Location
From 22.03.2021 (Mon) to 30.04.2021 (Fri)	Duration of show is 30 minutes. Schools can play the video for students on demand from 22 March to 30 April 2021.	Online

Remark: The show will be conducted in English (with Chinese and English subtitles).

2. Application

Schools interested shall register online through Croucher Science Week website (<https://croucherscienceweek.hk>) from 25 February 2021. School will be given access to the show upon successful registration.



Croucher Science Week 2021 – Outdoor Tours: Our Changing Climate
(for secondary schools)

1. Programme details

The Outdoor Tours will be delivered by Anturus, a science communication group in the United Kingdom. The content of the shows is related to two units of the Science (S1-3) curriculum: Unit 5 Energy and Unit 6 Matter as Particles. Details are as follows:

Our Changing Climate (for secondary schools)

Global warming is not only taking hold but speeding up. The Anturus team travel to Iceland to explore what can be done to control the crisis. Can energy from renewable sources match the amounts we now use? Can we capture carbon from the atmosphere to cool the climate? The effects of global warming on Iceland are profound. What can Iceland teach us about our changing climate?

Date	Time	Location
From 22.03.2021 (Mon) to 30.04.2021 (Fri)	Duration of programme is 20 minutes. Schools can play the video for students on demand from 22 March to 30 April 2021.	Online

Remark: The show will be conducted in English (with Chinese and English subtitles).

2. Application

Schools interested shall register online through Croucher Science Week website (<https://croucherscienceweek.hk>) from 25 February 2021. School will be given access to the programme upon successful registration.



Croucher Science Week 2021 – Science Talks: The Future of Food
(for secondary schools)

1. Programme details

The Science Talks will be delivered by Greg Foot, a science communicator in the United Kingdom. The content of the shows is related to two units of the Science (S1-3) curriculum: Unit 6 Matter as Particles and Unit 12 A Healthy Body. Details are as follows:

The Future of Food (for secondary schools)

In 2050, there'll be close to 10 billion people crowding our planet. With less space to grow food, less water to grow it with, and more concerns about its footprint, what will we all be eating? Join YouTuber and BBC presenter Greg Foot to discover the cutting-edge science and technology tackling these problems head on. Meet industry and thought leaders planning the menu of 2050: drought-tolerant rice, longer-lasting bananas, and lab-grown burgers.

Date	Time	Location
From 22.03.2021 (Mon) to 26.03.2021 (Fri)	Duration of programme is 45 minutes. Schools can play the video for students on demand from 22 March to 26 March 2021.	Online

Remark: The show will be conducted in English (with Chinese and English subtitles).

2. Application

Schools interested shall register online through Croucher Science Week website (<https://croucherscienceweek.hk>) from 25 February 2021. School will be given access to the programme upon successful registration.



STEM-Up HK Innovation and Technology Competition

Objective

This serves to invite all primary and secondary schools to participate in the STEM-Up HK Innovation and Technology Competition.

Details

2. The STEM-Up HK Innovation and Technology Competition is organised by the Junior Police Call (JPC) and supported by the Education Bureau, the Innovation and Technology Bureau, the Office of the Government Chief Information Officer, the Hong Kong Productivity Council, and the Hong Kong New Generation Cultural Association. The JPC has been committed to the provision of a wide range of activities and training for young people over the years. To suit the needs of students and tie in with the development of STEM education, the JPC will launch the competition in three phases: ‘Learning’; ‘Co-creation and Competition’; and ‘Award Presentation cum Exhibition’. Secondary and primary students will be given full play to their STEM skills and knowledge in collaborative projects on enhancing city management and improving people’s quality of living.

3. The goal of the competition is to provide a platform for students to engage in experiential learning and apply the concept of ‘Smart City’ by creating innovative and feasible solutions in the areas including ‘Mobility’, ‘Living’, ‘Environment’ and ‘Economy’. The competition can provide a chance for students to develop their skills in problem solving and logical reasoning, as well as to inspire their creative thinking.

4. The competition will be divided into four categories: junior primary schools, senior primary schools, junior secondary schools and senior secondary schools. Application is open to individuals with the submission of ‘Creative Design Drawing’ or ‘Creative Proposal’ from junior primary schools; and for all other categories, both to individuals and teams (no more than five members each) with the submission of ‘Project Proposal and Entry’.

5. To raise students’ knowledge on STEM disciplines and the concept of ‘Smart City’, the JPC will produce a series of e-learning workshops to introduce topics on ‘Mobility’, ‘Living’, ‘Environment’ and ‘Economy’ under the competition’s theme of ‘Smart City’. Professionals and professors will be invited to share their knowledge on different professional areas in these workshops. Students and teachers can view the videos via the competition’s website www.jpc.org.hk/stemup and JPC mobile application starting from February 2021.



6. There will be over 500 prizes for the whole competition, with a champion, a first runner-up and a second runner-up in each category. Prizes include scholarships, certificates of merit or trophies. The champion, first runner-up and second runner-up will be admitted to ‘the M.A.S.T.E.R. of Innovation Programme’ (for senior primary school students) and ‘the Young Scientist Mentorship Programme’ (for junior and senior secondary school students) run by Hong Kong New Generation Cultural Association. Award winners of the secondary schools will be invited to join the ‘Science and Technology Study and Exchange Tours to the Greater Bay Area’ alongside other thematic activities. In addition, each participant will be given a certificate of participation issued by the organiser.

7. For further details about the competition, including the competition dates, application procedure and competition guidelines, please browse the competition’s website.

8. To subsidise students’ participation in the competition, all government, aided, caput and Direct Subsidy Scheme secondary schools can participate in the “IT Innovation Lab in Secondary Schools” Programme of the Office of the Government Chief Information Officer and submit funding applications. The programme provides funding support of up to \$1 million in the three school years from 2020/21 to 2022/23 for each publicly funded secondary school to organise IT-related activities and to procure necessary IT equipment and related professional services to support the activities. Details are available on the programme website at <https://www.it-lab.gov.hk/> and Education Bureau Circular Memorandum No. 158/2020.

Enquiry

9. For further details, please contact JPC staff during office hours (0900 hours to 1700 hours, Monday to Friday, except public holidays) via hotlines at 9877 4690 (for teachers), 9877 4110 (for primary schools), 9307 4532 (for secondary schools) or by email (email address: stemup@jpc.org.hk).