

Creative Infographic Design Competition on Applications of Mathematics for Primary and Secondary Schools (2020/21)

Aims / Objectives

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

Details

2. The Creative Infographic Design Competition on Applications of Mathematics for Primary and Secondary Schools is organised by the Education Bureau (EDB). The aims of the competition are to promote students' interest in learning mathematics and enhance their awareness of the applications of mathematics in different aspects in real life.

3. To help schools understand the details of the competition, the EDB will hold an online briefing seminar on **17 December 2020 (Thursday)**. The seminar would also include sharing of scholars and teachers on applications of mathematics and the experience in guiding students in designing infographics respectively. For details of the seminar, please visit the EDB Training Calendar System (Course ID: CDI020210943).

4. Schools interested in nominating their students to participate in the captioned competition are requested to complete the Application Form (**Appendix 11a**) and return it to the Mathematics Education Section, Curriculum Development Institute, EDB by mail or fax **on or before 5 February 2021 (Friday)**. The deadline for the submission of students' works is **5:00 p.m. on 17 March 2021 (Wednesday)**.

5. Please refer to **Appendix 11b** for the forms to be submitted together with students' works. For the regulations of the captioned competition, please refer to **Appendix 11c**.

6. In case of class suspension for schools due to special circumstances, the application deadline and the deadline for submission of entries may be postponed. Other arrangements of the competition may also be changed. Latest information will be updated on the related EDB website (<http://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/midc.html>).

Teacher supervisors will also be informed by email through the email addresses provided in the application form.



Contact Person

7. For enquiries, please contact Ms LEUNG Kit-ying (primary level) of the Mathematics Education Section, Curriculum Development Institute, EDB on 2153 7469, or Mr CHEUNG Tsz-wai (secondary level) of the Mathematics Education Section, Curriculum Development Institute, EDB on 2153 7470.

Mathematics Education Section
 Curriculum Development Institute, Education Bureau
 Room 403, 4/F, Kowloon Government Offices
 405 Nathan Road, Kowloon
Attn.: Mr CHEUNG Tsz-wai
 (Fax No.: 3426 9265)

**Creative Infographic Design Competition on Applications of Mathematics
 for Primary and Secondary Schools (2020/21)
 Application Form (Application Deadline: 5 February 2021)**

Name of School: _____

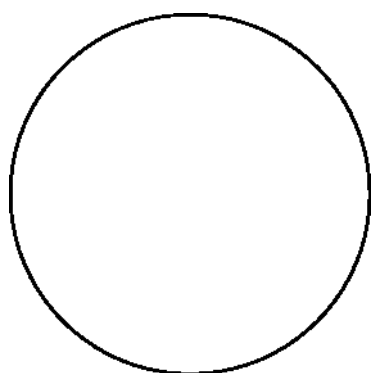
I nominate _____^(†) student(s)^(#) to participate in the Creative Infographic Design Competition on Applications of Mathematics for Primary and Secondary Schools.

The teacher-in-charge is:

Name of Teacher: (中文) _____先生/女士* (English) Mr /Ms* _____

Contact Tel. No. : _____ Email : _____

Our school authorises the Education Bureau to announce the related information of the student(s) (Restricted to the name of student(s), class level(s) and name of school) for the results of the captioned competition.



School Chop

Signature of Principal : _____

Name of Principal : _____

Tel. No. : _____

Fax No. : _____

Date : _____

† Please enter a number.

Each school could nominate **at most ten students** to participate in the Competition.

* Please delete whichever is inappropriate.

Creative Infographic Design Competition on Applications of Mathematics (2020/21)

Nomination Form[#]中小學數學應用創意信息圖設計比賽 (2020/21) 提名表[#]

Name of School (English)			
學校名稱 (中文)			
Teacher-in-charge 總負責教師	Name in English	Mr/Ms*	
	中文姓名	先生/女士*	
	Tel. No. 電話		
	Email ^{##} 電郵 ^{##}		

Information of Participants 參賽者資料：

No.	Name of Student	學生姓名	Class 班別	Name of Teacher Supervisor 指導教師姓名
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Each participating school must submit all infographic(s), short essay(s) and their respective Information Sheet(s) and Declaration and Consent Form(s) together with this **Nomination Form** by email to andrewtwcheung@edb.gov.hk, preferably in one mail, by 5:00 p.m. on 17 March 2021. This Nomination Form can also be downloaded from <http://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/midc.html>. Alternatively, the participating schools can submit a DVD or USB flash memory (with the softcopies of all infographic(s), short essay(s)) together with all required forms **by hand** by 5:00 p.m. on 17 March 2021 to the Mathematics Education Section, Curriculum Development Institute, the EDB, Room 403, 4/F, Kowloon Government Offices, 405 Nathan Road, Kowloon [Attn: Mr CHEUNG Tsz-wai].

每所參與學校須把所有信息圖、短文及其資料頁和聲明及同意書，連同本**提名表**於 2021 年 3 月 17 日下午 5 時或之前，電郵至 andrewtwcheung@edb.gov.hk（盡可能以一封電郵一併遞交）。本提名表可在下列網址下載：<http://www.edb.gov.hk/tc/curriculum-development/kla/ma/res/sa/midc.html>。學校亦可選擇把載有所有信息圖和短文電子版本的光碟或 USB 記憶體連同和表格，於 2021 年 3 月 17 日下午 5 時或之前以**人手**送交九龍彌敦道 405 號九龍政府合署 4 樓 403 室教育局課程發展處數學教育組 [經辦人：張子偉先生]。

* Please delete whichever is inappropriate.

All files must be submitted via this email address.

請刪去不適用者。

所有檔案須透過此電郵地址遞交。



**Creative Infographic Design Competition on
Applications of Mathematics (2020/21)
Information Sheet[#]**

**中小學數學應用創意信息圖設計比賽 (2020/21)
資料頁[#]**

Title of the infographic and short essay 信息圖及短文題目		
Name of School (English)		
學校名稱 (中文)		
Teacher Supervisor 指導教師	Name in English	Mr/Ms*
	中文姓名	先生/女士*
	Tel. No. 電話	
	Email 電郵	
Participant 參賽學生	Name in English	
	中文姓名	
	Class 班別	

This **Information Sheet** can be downloaded from:
<http://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/midc.html>

本資料頁可在下列網址下載：
<http://www.edb.gov.hk/tc/curriculum-development/kla/ma/res/sa/midc.html>



* Please delete whichever is inappropriate. 請刪去不適用者。

**Creative Infographic Design Competition on Applications of Mathematics for
Primary and Secondary Schools (2020/21)**

中小學數學應用創意信息圖設計比賽 (2020/21)

Declaration and Consent Form[#] 聲明及同意書[#]

Please complete the form by each participant and his/her parent or guardian:

須由每位參賽者及其家長或監護人填寫：

Name of participant: _____ 參賽學生姓名: _____ Class 班別: _____

Name of School: _____

學校名稱: _____

To: Education Bureau, HKSAR

I, the participant's *parent / guardian, hereby acknowledge that my *child / ward has participated in the captioned competition. We, being the participant's *parent / guardian and the participant, hereby warrant that the infographic and short essay are the original work of the participant and have never been submitted to the captioned competition or other open competitions in any forms or its translated version. We authorise the Education Bureau and the Organising Committee of the captioned competition to edit, modify, publish, and use the infographic and short essay in any forms for educational purposes, and have the final decision right for the above.

In case when the Education Bureau and the Organising Committee are put to any legal actions, demands, claims and costs arising from the infringement of intellectual property rights of the infographic and short essay, the participant and his/her parent/guardian concerned shall accept full liability and indemnify the Education Bureau and the Organising Committee for all related loss and damages.

致香港特別行政區政府教育局：

本人為參賽者 *家長 / 監護人，確認知悉本人 *子弟 / 受監護人 參加上述比賽。我們以參賽者 *家長 / 監護人 及參賽者身份，現保證參賽作品為參賽者之原作，該作品不論以任何形式或其翻譯版本亦從未呈交上述比賽或其他公開比賽。我們授權教育局及上述比賽的籌備委員會可以編輯、修改、出版，及以任何形式使用參賽作品作教育用途，並有上述的最終決定權。

若因參賽作品侵犯知識產權而導致教育局及比賽籌備委員會面對任何法律行動、要求、申索及開支，參賽者及其家長／監護人須負全責，並賠償教育局及比賽籌備委員會一切相關的損失。

Signature of parent / guardian 家長/監護人簽署: _____

Name of parent / guardian 家長/監護人姓名: _____

Signature of participant 參賽者簽署: _____

Contact Tel. No. 聯絡電話: _____ Date 日期: _____

This Declaration and Consent Form can be downloaded from:
<http://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/midc.html>

本聲明及同意書可在下列網址下載：
<http://www.edb.gov.hk/tc/curriculum-development/kla/ma/res/sa/midc.html>

* Please delete whichever is inappropriate. 請刪除不適用的項目。



Creative Infographic Design Competition on Applications of Mathematics for Primary and Secondary Schools (2020/21)

Details

The captioned competition is organised by the Curriculum Development Institute, Education Bureau. It aims at promoting students' interest in learning Mathematics and enhancing students' recognition on applying mathematics in different aspects in real life. The competition encourages students to design infographics which incorporate the elements of graphs, diagrams, text and mathematical expressions in creative ways to express the real-life applications of mathematics effectively and clearly. Through the competition, students' understanding of the role of mathematics in STEM would be enhanced. Students are also encouraged to appreciate mathematics in multiple perspectives and develop their creativity and communication skills. Details of the competition are given below:

1. Rules for the Creative Infographic Design Competition on Applications of Mathematics

- (a) The competition is on individual basis in three categories, namely the Upper Primary Category (Primary 4 to 6), Junior Secondary Category (Secondary 1 to 3) and Senior Secondary Category (Secondary 4 to 6). All upper primary school students and secondary school students who are studying in local primary and secondary schools are eligible to participate in the competition.
- (b) Each school could nominate at most ten students to participate in the competition. Each student may only submit one piece of work which includes an infographic and a short essay.
 - (i) The information conveyed by the infographic must be related to the specific theme of the year. The infographic should express the applications of mathematics under the specific theme clearly and accurately with the aid of graphs, charts, text and mathematical expressions, etc. The targets of the design are to allow general public to understand the applications of mathematics in real life, and to promote the contribution of mathematics in different aspects.
The theme of this year's competition is "Footprints of Mathematics in Daily Life".

- (ii) The basic specifications of the infographic:

Size	A3 (297mm × 420mm) Maximum size of the file is 10MB
Type of file	jpeg
Resolution	Must have sufficient resolution for clear display of all elements of the infographic, such as text and graphs.
Colour	The number of colours is unlimited
Design	<ul style="list-style-type: none">• Should introduce the applications of mathematics in a specific area and convey related information.• Should emphasise the positive influence of mathematics in the specific area.

- (iii) Participants should attach a short essay (either in English or Chinese) along with the infographic, introducing the design concept and content of the infographic. The short essay should be written in **at most** 150 words for the Upper Primary Category and **at most** 300 words for the Junior Secondary and Senior Secondary Categories, punctuation marks counted in Chinese essays. **Marks will be deducted or the entries will be disqualified if the number of words fails to comply with the requirement.**

- (iv) The short essay must be typeset by computer and submitted in MS Word format or in PDF format fulfilling the following requirements:

Type of the file	doc / docx / pdf
Font type in English	Times New Roman
Font type in Chinese	PMingLiu (新細明體) or MingLiu (細明體)
Font size	12
Line spacing	Double line spacing

The short essay must be composed in text only and mathematical expressions may also be included. **Handwritten short essays or their scanned copies will not be adjudicated.**

- (c) The content of the infographic and short essay **should not contain any identifications of the participant**, such as the school name and the name of the teacher supervisor, etc. **Otherwise, marks may be deducted.**
- (d) Each participant and his/her parent have to sign the Declaration and Consent Form in the appendix to declare that both the infographic and short essay are the original work of the participant and have never been submitted to this competition or other open competitions. The details of sources of all reference information, including tables and diagrams, if quoted in the infographic or short essay, must be indicated clearly as an appendix to the short essay. The details of the sources should include information such as the names of the books and their authors, or the URLs of websites. The entry will be **disqualified or will not be adjudicated** if the infographic and short essay fail to comply with the requirements.
- (e) Each participating school should submit the Nomination Form (**Appendix 11b**), all the entries (including the infographics and the short essays), the Information Sheet and the Declaration and Consent Form (**See Appendix 11b**) of each participant together through email to andrewtwcheung@edb.gov.hk via the email address of the teacher-in-charge by **5:00 p.m. on 17 March 2021 (Wednesday)**.
- (i) The Nomination Form and Information Sheet must be in MS Word format or in PDF format. The file name of Nomination Form must be formed by the name of the school plus “_nomination” (e.g. *Pri_ABC School_nomination.docx* and *Sec_EFG College_nomination.pdf*). In the file name, “Pri” stands for Primary Schools, while “Sec” stands for Secondary Schools. The Information Sheet must use the name of school and student plus “_info” as the file name (e.g. *Pri_ABC School_LiSiuMing_info.docx* and *Sec_EFG College_ChanTaiMan_info.pdf*).
- (ii) The file name of the infographic and short essay must be formed by the name of the school and student plus “_graph” and “_essay” respectively (e.g. *Pri_ABC School_LiSiuMing_graph.jpg* and *Pri_ABC School_LiSiuMing_essay.doc*; *Sec_EFG College_ChanTaiMan_graph.jpg* and *Sec_EFG College_ChanTaiMan_essay.doc*).
- (iii) The signed Declaration and Consent Form should be scanned and saved in PDF format, with the name of school and student as the file name (e.g. *Pri_ABC School_LiSiuMing.pdf* and *Sec_EFG College_ChanTaiMan.pdf*).

- (iv) The Nomination Form, Information Sheet and Declaration and Consent Form can be downloaded from the website of the Creative Infographic Design Competition on Applications of Mathematics for Primary and Secondary Schools:



<http://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/midc.html>

- (f) Schools may also submit DVDs or USB flash memories containing all the electronic versions of infographic(s) and short essay(s) together with the forms in an envelope **by hand** to the Mathematics Education Section, Curriculum Development Institute, Education Bureau by **5:00 p.m. on 17 March 2021(Wednesday)**. The envelope should indicate “Creative Infographic Design Competition on Applications of Mathematics (2020/21)” on the cover.
- (g) Submitted infographics and short essays cannot be amended. Only the first submitted version will be adjudicated.
- (h) Late submissions will not be adjudicated.
- (i) After the infographics, short essays and all the required forms are received, the Education Bureau will issue an email of acknowledgement to the teacher-in-charge by **19 March 2021 (Friday)**.
- (j) The winners of the competition for each category shall give brief presentations in the Award Presentation Ceremony. The Award Presentation Ceremony will be videotaped and photo-taken. All the videos recorded and photos taken in the Award Presentation Ceremony will be used for promoting the competition for primary and secondary schools.
- (k) The Education Bureau reserves the right to publish in full or part of the students’ works, videos recorded and photos taken in the Award Presentation Ceremony. All infographics and short essays will not be returned.
- (l) The decision of the Organising Committee for the Creative Infographic Design Competition on Applications of Mathematics is final.

2. Adjudication of the Competition

The panel of judges comprises scholars in tertiary institutions, experienced primary and secondary teachers, and representatives from the Education Bureau. All entries will be assessed according to the following criteria:

- (a) whether the infographic can effectively convey accurate and appropriate information related to the theme of the competition, and highlight the positive impact of the applications of mathematics in the area(s) related to the theme;
- (b) whether the infographic is creative and able to exhibit students' generic skills, such as communication skills and creativity;
- (c) whether the presentation of the infographic is systematic, concise and attractive;
- (d) whether the mathematical content of the infographic is appropriate and relevant to the theme of the competition; and
- (e) whether the content of the short essay can effectively explain the concept of the infographic design and the arrangement of content.


3. Prizes of the Competition

There are Gold Award, Silver Award and Bronze Award for each of the Upper Primary Category, Junior Secondary Category and Senior Secondary Category respectively. There can be multiple winners for each award. The prizes of each award are as follows.

Awards for each Group	Prizes
Gold	Trophy, certificate of merit and HK\$300 book coupon
Silver	Certificate of merit and HK\$200 book coupon
Bronze	Certificate of merit and HK\$100 book coupon

4. Important dates of the Creative Infographic Design Competition on Applications of Mathematics for Primary and Secondary Schools

Date	Event
8/12/2020 (Tuesday)	Deadline for application for the briefing seminar.
17/12/2020 (Thursday)	Briefing Seminar (Course ID: CDI020210943) Time: 2:30 p.m. – 4:30 p.m. Venue: Online Mode
5/2/2021 (Friday)	Deadline for the submission of application forms for the Creative Infographic Design Competition on Applications of Mathematics.
17/3/2021 (Wednesday)	Deadline for the submission of infographics and short essays. All infographics and short essays together with the required forms should be submitted by 5:00 p.m. on 17 March

Date	Event
	<p>2021 to the Mathematics Education Section of this Bureau through email: andrewtwcheung@edb.gov.hk [Attn: Mr CHEUNG Tsz-wai]</p> <p>If the entries is submitted by hand, the entries should be submitted by 5:00 p.m. on 17 March 2021 to: The Mathematics Education Section, Curriculum Development Institute, EDB Room 403, 4/F, Kowloon Government Offices 405 Nathan Road, Kowloon [Attn: Mr CHUENG Tsz-wai] Late submissions will not be adjudicated.</p>
28/5/2021 (Friday)	<p>Announcement of the results of the competition on the website of the Creative Infographic Design Competition on Applications of Mathematics for Primary and Secondary Schools: http://www.edb.gov.hk/en/curriculum-development/kla/mar/sa/midc.html</p> 
At the end of June 2021 (tentative)	Award Presentation Ceremony of the Creative Infographic Design Competition on Applications of Mathematics cum Exhibition of Winning Entries.

5. Enquiries

Enquiries regarding the Creative Infographic Design Competition on Applications of Mathematics may be directed to Ms LEUNG Kit-ying (primary level) (2153 7469) or Mr CHEUNG Tsz-wai (secondary level) (2153 7470) of the Mathematics Education Section, Curriculum Development Institute, Education Bureau.