

2023 TI 盃函數繪圖競賽

2023 TI Graphic Design Competition



Competition Details

1. Objective :

In the spirit of STEAM, we aim to encourage middle school students to see the world through the eyes of mathematics. This activity will be done through drawing of functions using technology, combined with student's artistic ideas. The goal is to stimulate students' creativity and while promoting mathematics education through technology.

2. Organization involved :

- (1) Hosted by : Taiwan Association for Mathematics Education
- (2) Organizer : Kuang-Tien International Co., Ltd., panpanhua Co. Ltd
- (3) Supported by : Texas Instruments Southeast Asia Pte. Ltd.

3. Important Details:

- (1) Period : From now to 5pm, March 31, 2023
- (2) Submission : Submit your entry to this URL < <https://reurl.cc/AyrGxY> >
- (3) Prizes : The competition prizes are shown in the table below.

	Prizes and Certificates
Gold Award (One Winner)	NT\$10,000 + One TI-Nspire CX II CAS + 1 TI certificate + 1 Taiwan Association for Mathematics Education certificate
Silver Award (One Winner)	One TI-Nspire CX II CAS + 1 TI certificate + 1 Taiwan Association for Mathematics Education certificate
Bronze Award (One Winner)	One TI-Nspire CX II + 1 TI certificate + 1 Taiwan Association for Mathematics Education certificate
Excellence Award (Five Winners)	1 TI certificate + 1 Taiwan Association for Mathematics Education certificate

(4) Competition Rules : Please see Attachment 1 below for more details.

4. Other Matters :

- The pictures and text records of all entries will be announced on the event website, and can be used by the host, organizers and supporting organization for non-profit purposes, or as a reference for future materials for teaching purposes.
- The copyrights of all entries belong to the creators, but the organizations involved can use the relevant entries for event marketing purposes. Participants can retain the complete copyright rights before the award is established. Participants agree that all intellectual property rights and copyrights of the prize-winning work shall be owned by the organization involved, and agree that the organization involved can exercise all the aforementioned copyright property rights separately, and all creators shall not object; the prize-winning creator also agrees not to object to the organization involved. To exercise copyright property rights, the organizers may use or authorize a third party to claim copyright property rights in any place, time, frequency, or method, without any prior notice or remuneration.
- Participants should agree that they have all copyrights in their entries, and that there is no plagiarism in their work. If the work uses other people's works or rights (including text, images and sounds, etc.), the participant will require the copyright owner's consent or authorization. If there is an act that infringes on the copyright of others, the relevant legal liability and compensation for damages shall be borne by the participant himself, and has nothing to do with the organization involved; the organizer may cancel the qualification of the competition or the award, and recover the award. The prizes, trophies, and certificates received shall not be contested by contestants or winners.
- In the event that the participant's basic information is incomplete, or the contact information is incorrect, or the specifications of the work does not match the

qualifications of the competition, or the file cannot be read, etc., and the organizer is unable to notify the participant, it will be regarded as void.

- Participants agree that all the information filled in or submitted are true and correct, all registrations are done by the participant's agreement and no inappropriate use of any third party's information or any violation of the law in doing so.
- Entries that involve pornography, violence, slander, and personal attacks are prohibited. Entries that infringe on the privacy of others or interfere with proper social customs and public order, or violate the relevant laws and regulations to Taiwan (R.O.C), etc., are also prohibited. Participants are also required to ensure that no entries are subjected to any gender, race, class, language, ideology, religion, party affiliation, etc. types of discrimination.
- In the event of violation of the above-mentioned points, except that the winners shall bear their own legal responsibilities, the organizer may also cancel the qualification of the award, and recover the bonus, trophy and certificate that he/she has received.

Rules and Regulations

1. General

- (1) The name of the event is "2023 TI Graphic Design Competition" (hereinafter referred to as this competition).
- (2) The rules of the competition are only applicable during the period of this event. If there are any outstanding matters or regulations, an email will be sent out to notify all participants.

2. Instructions for Participants :

- (1) This competition is for all middle school students in Taiwan (including students in junior high schools, high schools, international or public and private high schools).
(Students in grades 7-12 who are still studying before June 2023)
- (2) Each participant can only submit one entry.
- (3) Submissions are only allowed for files from the following TI graphing calculators or their respective software:
 - i. TI-Nspire CX
 - ii. TI-Nspire CX CAS
 - iii. TI-Nspire CX II
 - iv. TI-Nspire CX II CAS
- (4) The 30-day trial version and operation manual of TI-Nspire CX II CAS Student Edition software can be downloaded below:
<<https://reurl.cc/eWeQ1x>> or <<https://reurl.cc/GX9gzD>>
- (5) The theme for each submission entry needs to be related to a given theme.
- (6) Submission entries have to be mainly created using the "Graphs" APP in the TI-Nspire Technology.
- (7) The image must be in 'Computer Page Size'. Go to File > Convert to > TI-Nspire™

Document – Computer Page Size.

- (8) The image created must be made up of mathematical functions or equations. Only a small part (less than 20% of the entire image) is allowed to be edited freely by the participant.
- (9) Photos or pictures are not allowed to be imported into participant's entry.

3. Theme of the Competition :

- (1) The theme for 2023 :

"Taiwanese Traditional Majolica Tile"

- (2) The definition of "Majolica Tile": It is called Colorful Tile in Taiwan which is one of the painted tin glaze tiles. It is machine-made embryos the dry clay, painted and dried. The painting methods include hand drawn, embossed and printing. Japan was exposed to painted majolica tiles from Victorian England in 1907 and began to produce then export to China, Taiwan and Southeast Asia. The patterns and designs of the majolica tile in Taiwan include Victorian England patterns, Japanese patterns, Chinese auspicious patterns and Taiwan painted patterns. In the beginning of 1919, majolica tiles were widely used in decoration the building, roof ridges, walls and balconies.

Majolica tile has the features as below:

- ❖ The pattern of the design contained one of three types:
 - Focused and continuous patterns.



- Basic continuous patterns.



- Single design patterns.



- ❖ The pattern must be presented in square form.
- ❖ The pattern may contain cultural imagery designs such as peonies (symbolizing wealthy and prosperity), peaches (longevity), pomegranates (many children) etc.

4. Steps on Registering and Submitting an entry :

- (1) Students will have to submit in a .tns file, and the format of the name of the file is:
"Design's cultural implication name_student name_school name.tns".
- (2) Students will submit the .tns file (submission entry) to the following URL:
< <https://reurl.cc/AyrGxY> >
- (3) Students can create their images using the TI-Nspire student software, or directly from the TI-Nspire graphing calculator.
- (4) Only submitted entries that are .tns files are considered as valid entries.
- (5) Participants are required to participate in the competition individually. In the .tns file, the Graphing App (which shows the design) is on page 1.1, and the explanation of the theme, design's cultural implication, the creating experience and how to overcome the challenges should be written within 300 words in the page 1.2 (preferably in the Notes App).

5. Judging Criteria :

The judging score will depend on:

- Originality (30%) (able to identify the cultural implication, design and continuous patterns for Taiwanese traditional majolica tiles)
- Difficulty of the Math functions used (40%)
- Artistic quality (30%)

6. Other important matters :

- (1) For other matters not fully explained above, they are decided separately by the organizer and the decision of the organizer shall be final.
- (2) Judge's decision is immediate and final.
- (3) The organizer reserves the right to modify any of the above points without any prior notice.
- (4) The organizers will notify the winners through the school and email.
- (5) For more detailed information, please write to support@calculator.com.tw.