

# 第26屆香港青少年科技創新大賽

26th Hong Kong Youth Science & Technology  
Innovation Competition

## Main Organization



(香港特區政府教育局委託香港新一代文化協會主辦)

## Partner organization



## Co-organizer



## Special Award Sponsoring Organization:



# Instructions

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# 26th Hong Kong Youth Science & Technology Innovative Competition Instructions

## 1. Introduction

1. Hong Kong Youth Science and Technology Innovation Competition (HKSTIC) is organized by the Hong Kong New Generation Cultural Association, first launched in 1997. It has come to our twenty-sixth competition this year. It is highlighted that our annual competition has become the most tremendous and honorable inter-school science event. Our competition is open to Hong Kong kindergarten students, primary school students, secondary school students, teachers, and schools. Each year, nearly 4 thousand participants from over 4 hundred schools compete in HKSTIC across different categories, including: , , , , , and .

## 2. Mission

1. In an attempt to cultivate innovators in both science and technology who are responsible for fulfilling the needs of the 21st century, our competition aims to advocate for and promote STEAM education while soaring adolescents' interest in STEAM and their scientific literacy.
2. To nurture teenagers' imagination in science, spirit of innovation, and practical skills so they can overcome the upcoming challenges in the near future.
3. To guide teenagers to create inventions and make scientific discoveries so as to foster their adoption of cross-disciplinary knowledge and hands-on thinking ability.
4. To provide an opportunity for teenagers to demonstrate their creative thinking and innovative skills.
5. To encourage and recognize schools, teachers, and student organizations that actively promote STEAM education and those participants who demonstrate their outstanding performance in science and technology innovations.

## C · Competition calendar

Year	Date	Event	Description
2023	11 <sup>th</sup> November	Briefing session	Introduce details of competition and notice.
2024	12 <sup>th</sup> January	Application	Participants must apply online to get the [project number] and fill in the project abstract form for eligible participation.
	31 <sup>st</sup> January	Product submission	<b>Science Fantasy Drawing</b> — Contestants should submit their hard copies of drawings and abstract forms in person or send them by post.
			<b>Science fiction</b> — Contestants should submit their works and abstract forms in PDF format online.
			<b>Primary school invention</b> — Contestants should submit their hard copies of reports and abstract forms in person or send them by post. — Contestants should submit their product introduction video online. <b>Attention : If projects are selected to enter the final round adjudication, those contestants will be informed, respectively, to bring their products or models (if there are any) to the judges Q&amp;A session.</b>
			<b>Primary school Research Paper, STEAM Activity, STEAM Teacher and STEAM School</b> — Contestants should submit their reports and product abstract forms online. <b>Attention : If projects are selected to enter the final round adjudication, those contestants will be informed, respectively, to bring their products or models (if there are any) to the judges Q&amp;A session.</b>
		<b>Secondary School Research and STEAM teaching tool</b> — Contestants should submit their reports, product abstract forms and product introduction video online. <b>Attention : If projects are selected to enter the final round of adjudication, those contestants will be informed, respectively, to bring their products or models (if there are any) to the judges Q&amp;A session.</b>	
	23 <sup>rd</sup> February	First round adjudication of Primary School Invention	The works will be assessed by the judges' team, contestants are not required to attend in person.
	1 <sup>st</sup> March	First round adjudication of Science Fantasy	

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		Drawing	
	From 5 <sup>th</sup> February to 23 <sup>rd</sup> February	First round adjudication (online)	
	22 <sup>nd</sup> March	Final Round Adjudication (Exhibition)	Contestants are required to bring their products or model to Hong Kong Science and Technology Park for exhibition.
	23 <sup>rd</sup> March	Final Round Adjudication (with judges)	All the contestants selected to enter the final round of adjudication must participant the Q&A sessions.  <b>Attention : For those contestants participate as a group, all the members in that group must attend the final round of adjudication. Otherwise, the entry eligibility will be disqualified.</b>
	24 <sup>th</sup> March	Award ceremony	

## 2. Application Procedures and Instructions

### A · Application Procedures



Scan the QR code on the right-hand side to reach the website.



### B · Application Instructions

1. Please read competition guide carefully.
2. Contestants, teachers, and school representative can login our HKSTIC website (<http://stic.newgen.org.hk>) for online application. The contestants apply successfully will receive the confirmation email from HKSTIC. Contestants, please read the and record the project number sent by email.
3. Each project will only receive one project number.
4. If there are more than twenty projects in a school or an organization to participate, it is advised to choose group application. (There is no need to apply respectively.) Please download the application form of group participation in HKSTIC website. Contestants should fill in the application form and email to [stic@newgen.org.hk](mailto:stic@newgen.org.hk) before the deadline. For the project number of group application, HKSTIC will reply within a week by email.
5. Contestants should fill in the application form online and ensure all the information is accurate.

### Inquiry : Hong Kong New Generation Cultural Association Science Innovation Centre

Address : [21 Hong Kin Road, Sai Kung, New Territories](#)

[Sai Kung Outdoor Recreation Centre](#)

[Hong Kong New Generation Cultural Association Science Innovation Centre](#)

Contact number : 2792 3639

Fax : 2792 0286

Email : [stic@newgen.org.hk](mailto:stic@newgen.org.hk)

Office hours : Monday to Friday 10a.m. to 5p.m.

## 3. Competition categories and Notice

Competition categories	Kindergarten group	Primary school group	Junior secondary school student group	Senior secondary school student group
1. Science Fantasy drawing	✓	✓	✓	✗
2. Science fiction	✗	✓	✓	✓
3. Research and invention	✓	1. Invention 2. Research paper	1. Mathematics and Engineering 2. Chemistry and Materials 3. Biology and Health Science 4. Energy and Environmental Science	1. Mathematics and Engineering 2. Chemistry and Materials 3. Biology and Health Science 4. Energy and Environmental Science

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			5. Information and Computer technology	5. Information and Computer technology
4. STEAM activity	✘	✘	✓	✓
5. STEAM teacher	✘	✓	✓	✓
6. STEAM teaching tool	✘	✓	✓	✓
7. STEAM school	✘	✓	✓	✓

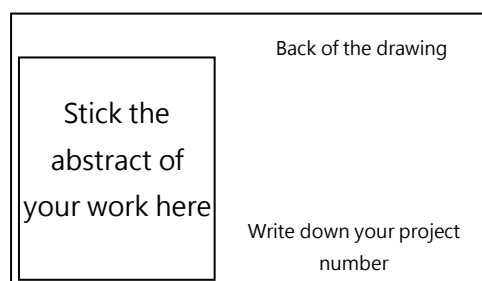
### 3.1 Science Fantasy Drawing

#### A ․ Category description ( Kindergarten group, primary school group and junior secondary school students group )

Science Fantasy Drawing category requires children and teenagers use drawing to present how human live and work in the near future to demonstrate contestants' vision and thinking on future science development to advocate the connection between science, technology and art.

#### B ․ Competition Instructions

- Science Fantasy Drawing category is classified into kindergarten group, primary school group and junior secondary school students' group.
- The age of students must be between 5 and 14 years old before July 1, 2024.
- HKSTIC only limits to individual drawing. Work should be done by contestants on their own. (Including conception and drawing)
- The size of the drawing paper is A2 (594mm x 420mm).
- The drawing mediums include, but are not limited, to oil painting, Chinese painting, watercolor painting, gouache painting, pen painting, pencil painting, crayon painting, printmaking, paste painting, computer painting, etc. HKSTIC only accepts two-dimensional works only, and does not accept three-dimensional work.
- Contestants should write down the project number at the bottom right corner on the back of the drawing.
- Each drawing should have one abstract form and must stick at the left side on the back of the drawing.
- If contestants' drawing is selected to enter the final round adjudication, contestants should submit an e-copy of the abstract of the drawing following the guidelines provided by HKSTIC before the final round adjudication in.doc or.docx form. All the drawings and documents submitted to HKSTIC will not be returned.
- HKSTIC would not take any responsibility if the drawing is damaged in post. Contestants can take the drawing to Hong Kong New Generation Cultural Association Science Innovation Centre in person.



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10. All the drawing should not have or write down any tutor name or school name. Otherwise, the entry eligibility will be disqualified.

### C ․ Judging criteria

Criteria	Content	Mark distribution
Scientificity	Examine whether the artwork is logical thinking and related to scientific technology	30%
Imagination ability	Examine the novelty, creation, and imagination of artwork	30%
Artistry	Graphic design, color management and painting skills	40%

### D ․ Submission Instructions

1. Deadline of submission : From 2<sup>nd</sup> January 2024 to 31<sup>st</sup> January 2024
2. Submission requirements : i)Hard copy of contestants' Science Fantasy Drawing ii) Abstract of drawing (It should stick on the back of the drawing.)
3. How to submit : Send by post (**Deadline is referred to the postmark**)or submit in person (**Be aware of our office hour, @ p.5**)

**Address : 21 Hong Kin Road, Sai Kung, New Territories**

**Sai Kung Outdoor Recreation Centre**

**Hong Kong New Generation Cultural Association Science Innovation Centre**

**If contestants' work are selected to final round adjudication :**

HKSTIC will inform those contestants to submit an e-copy of the abstract of your work before the final round adjudication in.doc or.docx form.

## **3.2 Science fiction**

### **A ․ Category description ( Primary school group, junior secondary school students group and senior secondary school students group )**

To cultivate students' interest in science and soar their imagination in science, meanwhile, advocate the connection between science, technology, and art. HKSTIC provides opportunities to realize their potential and encourages them to create and write science fiction in other ways to nurture more all-rounders.

### **B ․ Instructions**

1. The content of science fiction must be written in Chinese and submitted in a pdf file.
2. Word limit :  
**Primary school students group** : 500 to 2000 words  
**Junior secondary school students group** : 1000 to 3000 words  
**Senior secondary school students group** : 3000 to 5000 words
3. Please state the total number of words at the end of your work (including punctuation marks).



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- Contestants' work must be their original creation and must not violate a third party's intellectual property rights.
- If contestant's work violate intellectual property rights and leads to any legal liability and consequence, contestants should bare all the responsibility and HKSTIC will not take any responsibility.
- HKSTIC owns the copyright to all the submitted work. HKSTIC can use contestants' work in any legal way for market promotion and non-profit use.
- All the drawing should not have or write down any tutor name or school name. Otherwise, the entry eligibility will be disqualified.

### C ․ Judging criteria

Criteria	Content	Mark distribution
Scientificity	Whether participants can use scientific knowledge to undergo creative writing	15%
Imagination ability	Whether the story is unrealistic, innovative, and imaginative	20%
Interestedness	Whether the content is interesting and engaging, also dialogue, character and suspense are well-descriptive and attractive	25%
Fluency	Whether story is fluent, the construction and logistic are sensible	25%
Inspiration	Whether the work is with educational and inspiring	15%

### D ․ Notice for Submission

- Deadline of submission : From 2<sup>nd</sup> January 2024 to 31<sup>st</sup> January 2024
- Submission requirements : i) Science fiction ii) Abstract
- How to submit : Submit e-copy online (In pdf file), website : <https://stic.newgen.org.hk/>

#### **If contestants' work are selected to final round adjudication :**

HKSTIC will inform those contestants to submit an e-copy of the abstract of your work before the final round adjudication in.doc or.docx form.

## **3.3 Primary School Invention and Research**

### **3.3.1. Primary School Invention**

#### **A ․ Category description**

Primary school students' invention refers to all the new products and models that can be practically used in society and are created by primary school students.

#### **B ․ Instructions**

- Contestants can participate individually or participants as a group. (A group can have maximum 3 members.) For group participation, each group members should participate in the same category. If contestants are selected to enter the final round adjudication, all the group members should participate the judges Q&A session. Otherwise, the entry eligibility will be disqualified.
- The work of contestants must be finished within 2 years before the submission deadline for HKSTIC.
- Contestants should conceive and finish during whole process of invention.

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- The work should not be illegal or interferes with the profits of the public
- All the drawing should not have or write down any tutor name or school name. Otherwise, the entry eligibility will be disqualified.

### C ․ Judging criteria

Criteria	Content	Mark distribution
Innovation	Whether the work is inspiring, innovative, and with advanced technology	25%
Scientificity	Whether the invention principle and methods are scientific	25%
Practicality	Whether the work is practical and useful to society in which can enhance living quality of society	30%
conscientiousness	Whether the process of discovery and invention are conscientious	20%

### D ․ Guidelines for Submission

- Contestants must attach one photo which includes contestants and their product on the first page of the report.
- Submission deadline: Jan 2, 2024, to Jan 31, 2024
- Submission requirements : i) Abstract of product \*5 ii)Hard copy of product report \*5 (Available in both Chinese and English)  
iii) A video of product introduction (no more than 3 minutes and available in both Chinese and English)
- How to submit : Send by post (**Deadline is referred to the postmark**)or submit in person (**Be aware of our office hour, @ p.5**)

**Address : 21 Hong Kin Road, Sai Kung, New Territories**

**Sai Kung Outdoor Recreation Centre**

**Hong Kong New Generation Cultural Association Science Innovation Centre**

(iii) Online submission via the following website : <https://stic.newgen.org.hk/>

#### **If contestants' work are selected to enter final round adjudication :**

- HKSTIC will inform those contestants to submit an e-copy of the abstract of the drawing HKSTIC before the final round adjudication in.doc or.docx form.
- Contestants should bring the hard copy of product or product model to the judges Q&A session and demonstrate the research diary to the judges.
- Contestants should clearly write down the project number on the product or the model and stick the project label on them. The size of product should not greater than 100cm (Length)x50cm (Width)x100cm (Height).

### **3.3.2. Primary school research paper**

#### **A ․ Category description**

Primary school research paper refers to the contestants should undergo research, experiments, and

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investigation to a science-related topic. Meanwhile, contestants should obtain the conclusion and write a report.

## B ․ Instructions

1. Contestants can participate individually or participants as a group. (A group can have maximum 3 members.) For group participation, each group members should participate in the same category. If contestants are selected to enter the final round adjudication, all the group members should participate the judges Q&A session. Otherwise, the entry eligibility will be disqualified.
2. The work of contestants must be finished within 2 years before the submission deadline for HKSTIC.
3. Contestants themselves should conceive and finish during whole process of invention.
4. The work should not be illegal or interferes with the profits of the public
5. HKSTIC does not accept any research paper with inadequate science principles or with no conclusion.
6. All the drawing should not have or write down any tutor name or school name. Otherwise, the entry eligibility will be disqualified.

## C ․ Judging criteria

Criteria	Content	Mark distribution
Innovation	Whether chosen topic and invention is innovative	25%
Scientificity	Whether the suggested principle and method are sensible, accurate and reliable	35%
Practicality	Whether the work is practical and beneficial to society, meanwhile, enhancing living quality of human	15%
Conscientiousness	Whether there are enough data and research paper to support participants' work, also the research process is conscientious	25%

## D ․ Guidelines for Submission

1. Contestants must attach the photo which captures contestants and their research progress on the first page of their report.
2. Submission deadline: From 2<sup>nd</sup> January 2024 to 31<sup>st</sup> January, 2024
3. Submission requirements : i)Product abstract  
ii)Report (Available in both Chinese and English)
4. Ways of submission : Submit online via the following link : <https://stic.newgen.org.hk/>

### **If contestants' work are selected to enter final round adjudication :**

- i. HKSTIC will inform those contestants to submit an e-copy of the abstract of the drawing HKSTIC before the final round adjudication in.doc or.docx form.
- ii. Contestants should bring the hard copy of product or product model to the judges Q&A session and demonstrate the research diary to the judges.
- iii. Contestants should clearly write down the project number on the product or the model and stick the project label on them. The size of product should not greater than 100cm (Length)x50cm (Width)x100cm (Height).

### **3.4 Research and Invention of Secondary school students' group**

Categories of invention and research of Secondary school students' group are classified into five subjects. Those five subjects then include both junior secondary school group and senior secondary school group. Contestants can participate with their research paper or invention.

<b>Mathematics and Engineering</b>	<b>Chemistry and Materials</b>	<b>Biology and Health Science</b>	<b>Energy and Environmental Science</b>	<b>Information and Computer technology</b>
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#### **A 、 Category description**

##### **3.4.1. Mathematics and Engineering**\_(Including the products in related to electricity and mechanics etc. )

Applied Mathematics : Mathematical theories and methods for the purpose of application, and the application of mathematics to the study of other fields of knowledge.

Physics : Refers to the study of the principles, theories and laws of energy and its interaction with matter.

Engineering : Refers to works that directly apply scientific principles to production and practical application; generally resulting in new technologies or products.

##### **3.4.2. Chemistry and Materials**

Chemistry : Refers to the study of the properties and composition of substances and the laws they obey.

Materials science: Refers to the research, invention, or application of new materials.

##### **3.4.3. Biology and Health**

Biology Science : Refers to the study of plant and animal life.

Health Science : Refers to the study of human and animal disease, medicine and health.

##### **3.4.4. Energy and Environmental Science**

Energy Science : Refers to the development and application of new energy.

Environmental Science : Refers to the study of pollution sources (air, water and land resources) and

##### **3.4.5. Information and Computer Technology**

Computer : Refers to the study of computer theory or programs; the design of computer software and hardware.

Information Technology : Refers to the design and research of information systems and application

## B 、 Instructions

1. Contestants of Research and Invention of Secondary school students group can participate individually or participants as a group (A group can have maximum 3 members.) .
2. The work of contestants must be finished within 2 years before the submission deadline for HKSTIC.
3. Contestants themselves should conceive and finish during whole process of invention.
4. The work should not be illegal or interferes with the profits of the public
5. HKSTIC does not accept any research paper with inadequate science principles or with no conclusion.
6. All the drawing should not have or write down any tutor name or school name. Otherwise, the entry eligibility will be disqualified.

## C 、 Judging criteria

Criteria	Content	Mark distribution
Innovation	Whether the work is inspiring, innovative, and with advanced technology	25%
Scientificity	Whether the invention principle and methods are scientific	30%
Practicality	Whether the work is practical and useful to society in which can enhance living quality of society	30%
Conscientiousness	Whether the process of discovery and invention are conscientious	15%

## D 、 Guidelines for Submission

1. Contestants must attach one photo which includes contestants and their product on the first page of the report.
2. Submission deadline: Jan 2, 2024, to Jan 31, 2024
3. Submission requirements : i) Abstract of product ii)Soft copy of product report (Available in both Chinese and English) iii) Introduction video of product (Only if your product belongs to the category of invention is required to submit, meanwhile, the time limit is no more than 3 minutes and available in both Chinese and English).
4. Ways of submission : Submit online via the following link : <https://stic.newgen.org.hk/>

### **If contestants' work are selected to enter final round adjudication :**

1. HKSTIC will inform those contestants to submit an e-copy of the abstract of the drawing HKSTIC before the final round adjudication in.doc or.docx form.
2. Contestants should bring the hard copy of product or product model to the judges Q&A session and demonstrate the research diary to the judges.
3. Contestants should clearly write down the project number on the product or the model and stick the project label on them. The size of product should not greater than 100cm (Length)x50cm (Width)x100cm (Height).

### **3.5 STEAM activity** (Secondary school group)

#### **A † Category description**

STEAM activity refers to a comprehensive and group activity related to science and technology. Secondary school should submit the activity records and conclusion.

#### **B † Instructions**

1. Participants can group as a group, class, or a society as one unit to participate. Teachers and fitting organization cannot apply as participants.

1. Each group can have three representatives to participate HKSTIC, and they must attempt the final round adjudication. Otherwise, the entry eligibility will be disqualified.
2. The group should submit their records and conclusion of activity. (Including some written materials and some essential materials etc.)
3. The ways of practical activities can include extra-curricular activity, research study or social practical activity. However, it must contain some education goals, Science popularization and includes the following five requirements:

i. Clear topic	When designing activities, the main theme should be assigned according to prerequisites and accessibility of school. The activity should be beneficial to promotion of popularization of teenage science and technology activities. It should also encourage teenage to learn scientific and technical knowledge, science methods, scientific mindset meanwhile to cultivate their spirit of science. It should carry some significances in related to development of education, production, economic and scientific culture, etc.
ii. Complete implementation process	When implementing activity, there should be well-organized activity plan, activity progress, methods of organization, steps of implementation and evaluation summary.
iii. Sufficient raw material	There should conclude activity plan, activity records (Including content, time, place, participants' list and number of participants) , photos, DVD and news reporting, etc. to demonstrate the practical progress of the activity.
iv. Accurate implementation result	The person-in-charge or the main participants should report the results of this activity clearly in written form (available in both Chinese and English). Words should be neat, and contestants can attach tools, photos, DVDs, etc. if necessary.
v. Actual result and understanding	It should include the activity reviews of teenagers, education coverage of the activity promotion, social benefit demonstrated by the activity, and the suggestions given to the following related works, etc.

**C ․ Judging criteria**

Criteria	Content	Marking criteria
Demonstration	The topic selection, design concept, and form of organization of the event are innovative and exemplary. There is extensive or in-depth social cooperation and participation during the implementation process. It can encourage contestants to take the initiative to learn and explore science.	25%
Education	Content of activity and form of organization can fulfill the needs of students' development, give full play to students' autonomy, enhance students' sense of social responsibility, and help improve students' scientific quality and scientific interests.	30%
Innovation	The design innovation of activity content, process or method has novel ideas and can be adapted to different people and diverse conditions.	25%
Completion	The activity report is complete and well-organized, the activity results are clear and outstanding, and the practical results are summarized.	20%

**D ․ Guidelines for Submission**

1. Contestants must attach the photo which captures contestants in related to their STEAM activities on the first page of their report.
2. Submission deadline: From 2<sup>nd</sup> January 2024 to 31<sup>st</sup> January, 2024
3. Submission requirements : i)Project abstract form  
ii)Report (Available in both Chinese and English)
4. Ways of submission : Submit online via the following link : <https://stic.newgen.org.hk/>

**If contestants' work are selected to final round adjudication :**

HKSTIC will inform those contestants to submit an e-copy of the abstract of your work before the final round adjudication in.doc or.docx form.

### **3.6 STEAM teachers (Secondary school group and primary school group)**

#### **A ․ Category description**

STEAM Teacher group aims to select those outstanding secondary school and primary school teachers who advocate STEAM education.

#### **B ․ Instructions**

1. It limits to individual contestant only.
2. The contestants should be Hong Kong primary school teachers, secondary school teachers, technicians, and teacher assistants.
3. Contestants must have experience tutoring students on how to organize STEAM education activities and obtain outstanding results with certain teaching experiences.
4. **Content requirements of STEAM teaching plan/ STEAM practical activity plan:**
  1. Name of plan
  2. Background (Needs analysis)
  3. Teaching method and teaching goal:
  4. All the related people and total number of people:
  5. Main body:
    - Content of activity, main aim, and unique innovation
    - Utilization of respective types of scientific and technical education resources (including venue, information, and tools, etc.)
    - Problems and solution
    - Expected results and presentation methods
    - Standards and ways for results evaluation
    - How to elevate teenagers' creative mindset and cultivate their own moral value

#### **C ․ Judging criteria**

<b>Criteria</b>	<b>Content</b>	<b>Mark distribution</b>
Innovation	The program content, process, methods and educational concepts are innovative and focus on solving specific problems faced by young people.	15%
Scientificity	The principles and implementation concepts of the plan are scientific	20%
Practicality	The plan is in line with the knowledge and ability level of the participants, is feasible, and conforms to the STEAM education concept	30%
Promotion	The solution can reflect the development direction of contemporary science and technology, is easy to operate and has promotion value, and can help encourage participants to actively engage in interdisciplinary learning.	20%
Completion	The plan must include activity goals, processes, implementation steps, effectiveness evaluation and promotion value, etc.	15%



## D ․ Guidelines for Submission

1. Contestants must attach the photo which captures contestants in related to their STEAM activity s on the first page of their report.
2. Submission deadline: From 2<sup>nd</sup> January 2024 to 31<sup>st</sup> January 2024
3. Submission requirements : i)Project abstract form  
ii)STEAM teaching plan/ STEAM practical activity Report (Available in both Chinese and English)
4. Ways of submission : Submit online via the following link : <https://stic.newgen.org.hk/>

### If contestants' work are selected to final round adjudication :

HKSTIC will inform those contestants to submit an e-copy of the abstract of your work before the final round adjudication in.doc or.docx form.

## 3.7 STEAM tools (Secondary school group and primary school group)

### A ․ Category description

STEAM teaching tool refers to the teaching tools or models that teachers used for STEAM education during lesson. The models for demonstration must be scaled according to its original product and workable.

### B ․ Instructions

1. The target people are secondary school teachers, primary school teachers, technicians and teacher-assistant.
2. The work of contestants must be finished within 2 years before the submission deadline for HKSTIC.
3. Contestants should conceive and finish during the whole process of invention.
4. The work should not be illegal or interferes with the profits of the public
5. HKSTIC does not accept any product which is not workable and with inadequate science principles.
6. All the work should not have or write down any tutor name or school name. Otherwise, the entry eligibility will be disqualified.

### C ․ Judging criteria

Judging criteria	Content	Mark distribution
Innovation	Teaching tools are novel, advanced and innovative	20%
Scientificity	The principles of teaching tools and teaching concepts are scientific	20%
Practicality	Teaching tools have practical teaching benefits, can improve students' learning quality, solve STEAM teaching difficulties, and help cultivate students' interdisciplinary learning abilities.	35%
Promotion	The teaching tools can reflect the development direction of contemporary science and technology, are easy to operate and have promotion value.	25%

**D † Guidelines for Submission**

1. Contestants must attach one photo which includes contestants and their product on the first page of the report.
2. Submission deadline: Jan 2, 2024, to Jan 31, 2024
3. Submission requirements : i) Abstract of product
  - i. Abstract of product
  - ii. Hard copy of product report (Available in both Chinese and English)
  - iii. Introduction video of product (the time limit is no more than 3 minutes and available in both Chinese and English).
4. Ways of submission : Submit online via the following link : <https://stic.newgen.org.hk/>

**If contestants' work are selected to enter final round adjudication :**

HKSTIC will inform those contestants to submit an e-copy of the abstract of the drawing HKSTIC before the final round adjudication in.doc or.docx form.

Contestants should bring the hard copy of product or product model to the judges Q&A session and demonstrate the research diary to the judges.

Contestants should clearly write down the project number on the product or the model and stick the project label on them. The size of product should not greater than 100cm (Length)x50cm (Width)x100cm (Height).

### 3.8 STEAM School(Secondary school group and primary school group)

#### A ․ Category description

Its aim is to select and commend those primary and secondary schools that perform outstandingly in STEAM education promotion.

#### B ․ Instructions

1. School must have some STEAM Education promotion-related experience and obtain some remarkable results.
2. School should include policies that cooperate with STEAM education promotion-related measures.
3. School should be a full-day or half-day secondary or primary school in Hong Kong.
4. School rewarded ‘Outstanding STEAM School’ or ‘Top Ten Science and Technology Education Innovation Schools’ in the Hong Kong competitions or the national competitions respectively, they can participate in HKSTIC for this category again three years after winning the award.
5. Submission of STEAM Education reports. Content should include:
  - i. Introduction of school
  - ii. STEAM Education Ideas
  - iii. Results of STEAM Education promotion in both inside and outside school
  - iv. STEAM teachers’ professional development, staffing and resources investment
  - v. Awards in off-campus STEAM competitions
  - vi. Summary and evaluation reports

**\* For further details, please refer to the "STEAM School Reporting Guidelines"**

#### C ․ Judging criteria

Criteria	Content	Mark distribution
Comprehensive support	School leaders attach great importance to the professional development of STEAM teachers, staffing and adequate resource investment	15%
Innovation	The approach in promoting STEAM education and activities is novel and innovative	10%
Scientificity	STEAM’s teaching design, teaching concepts and practice plans are scientific	10%
Feasibility	The school’s plan to promote STEAM education and related activities is feasible	20%
Practical outcomes	The school’s awards in various off-campus STEAM competitions	30%
Promotion	The school’s models and plans for promoting STEAM education and related activities have promotional significance and value.	15%

**D † Guidelines for Submission**

1. Submission deadline: Jan 2, 2024, to Jan 31, 2024
2. Submission requirements :
  - i. Abstract of product
  - ii. STEAM School Report (Available in both Chinese and English)

**4. Introduction and description of award and scholarship**

- A. Each group will have grand prize, second prize, third prize and merit award.
- For those winners who win first prize, second prize and third prize will get trophy and certificate. For those winners which award merit award will get medals and certificate. For all qualified participants and their teacher will get a participation certificate.
  - The prize scholarship of this competition is sponsored by Bank of China (Hong Kong). There are a total of 108 awards for the following categories, with the gross prize value of over HK\$220,000. The value of prize scholarship is listed as following:

Primary and Secondary School Research and Invention categories	Prize
First Prize	Cash prize HK \$ 5,000
Second Prize	Cash prize HK \$ 3,000
Third Prize	Cash prize HK \$ 1,000

Science Fantasy Drawing and Science Fiction categories	Prize
First Prize	Cash prize HK \$ 3,000
Second Prize	Cash prize HK \$ 2,000
Third Prize	Cash prize HK \$ 1,000

- For outstanding winners, they may be recommended to participate in China Adolescents Science & Technology Innovation Contest, The Soong Ching Ling Children’s Invention Competition, International Science and Engineering Fair and International Exhibition of Inventions Geneva etc. in related national and international science competition.

B. Organizing award

**Outstanding organizing award** : Calculate the total score obtained by participating projects submitted by the school on a school basis and this award will present to the highest score of top three secondary schools and primary schools. The marking criteria is as followed:

Marking criteria	Marks (Per product)
Submitting eligible product	1 mark
Merit award	100 marks
Third prize	200 marks
Second prize	300 marks
Grand prize	400rks

**\*Marks are not counted in cumulative sums. (Which means if a product is rewarded with a grand prize, its total marks are 400.)**

C. Special awards

a. Hong Kong Council for Testing and Certification

i. **Outstanding testing special award**

For contestants participate in the ‘Research and Invention’ category of Secondary School group and their topics are related to testing, they are eligible to compete for this special award. This special award has a first prize, a second prize and a third prize. The awardee can receive the following prize:

Award	Prize
First prize	Trophy, certificates, and book coupons worth \$3,000
Second prize	Trophy, certificates, and book coupons worth \$2,000
Third prize	Trophy, certificates, and book coupons worth \$1,000

b. Occupational Safety & Health Council

i. **Occupational Safety special award**

For contestants participate in the ‘Research and Invention’ category of Secondary School group and their topics are related to occupational safety, they are eligible to compete for this special award. This special award has a first prize, a second prize and a third prize. The awardee can receive the following prize:

Award	Prize
First prize	Trophy, certificates, and shopping coupons worth \$3,000
Second prize	Trophy, certificates, and shopping coupons worth \$2,000
Third prize	Trophy, certificates, and shopping coupons worth \$1,000

## 26th Hong Kong Youth Science & Technology Innovative Competition Instructions

### i. Occupational health special award

For contestants participate in the 'Research and Invention' category of Secondary School group and their topics are related to occupational health, they are eligible to compete for this special award. This special award has a first prize, a second prize and a third prize. The awardee can receive the following prize:

Award	Prize
First prize	Trophy, certificates, and shopping coupons worth \$3,000
Second prize	Trophy, certificates, and shopping coupons worth \$2,000
Third prize	Trophy, certificates, and shopping coupons worth \$1,000

### c. Universespirit special award

This award is given to those work in secondary school group perform outstanding in electronics and computer engineering. There is one special award for junior secondary school group and senior secondary school group respectively.

The awardee can receive the following prize:

Group	Prize
Junior secondary school student group	Trophy, certificate, and cash prize \$2000
Senior secondary school student group	Trophy, certificate, and cash prize \$1000

### d. International Education Research and Development Centre Special award

Those contestants who win awards in the category of Primary, Junior Secondary and Senior Secondary Science fictions, which will be awarded coupons valued at HK\$1,000 and book set "Cixin Liu's Sci-fic Comics" respectively

## 5. Other instructions

- For those contestants cannot submit within the duration of deadlines (From 2<sup>nd</sup> January 2024 to 31<sup>st</sup> January 2024), its eligibility for participation will be atomically cancelled and no certificate will be presented.)
- All the work and paperwork submitted to HKSTIC will not be returned and are belong to HKSTIC. (If the product is very expensive, please use model to participate in HKSTIC.)
- If contestant's work violate intellectual property rights and leads to any legal liability and consequence, contestants should bare all the responsibility and HKSTIC will not take any responsibility.
- The Association will retain the right to publish all entries, including introducing them to the media or displaying them in public exhibitions.
- HKSTIC reserves the right to make the final decision on this competition.