



2023 IEYI

International Exhibition for Young Inventors

RULEBOOK

Organizers: Executive Secretariat of International Exhibition for Young Inventors

Important Dates:

- **Online Registration:** July 1 ~ August 31, 2023
- **Application Forms & Video Submission:** August 31, 2023 at the latest

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1. About IEYI

The history of the International Exhibition for Young Inventors (IEYI) can be traced back to 2004. It was initiated by the Japanese Institute of Inventors and Innovations (JIII) and organized by the International Forum of Invention Promotion (IFIP). Since then, each member of IFIP has taken turns holding this event to encourage the innovation and invention of young people in the world. Considering the mental development on the interaction with “people, data, and things”, AI can replace many interactions with data, we must pay more attention to the interaction with things which regulates more inventions that are need in AI society. Then, invention exhibition can encourage youths involve more efforts in thinking and doing inventions.

The main goal of the IEYI is to encourage the creativity and ingenuity of young people all over the world. It offers participants a unique opportunity to present their inventions and share experiences with other participants from different countries. This competition aims to provide an appropriate level of competition for young talents to help them pass on their knowledge to their peers and develop skills for collaboration in innovation between countries. This competition provides a stage for outstanding young people worldwide to showcase their inventions and creations and give them high respect and praise. In this way, young people are encouraged to pursue more prosperous and innovative abilities to create a better future world.

Due to the current circumstances of COVID-19 pandemic, 2023 IEYI World Contest will remain virtual and be hosted by Executive Secretariat of International Exhibition for Young Inventors, as agreed with all IEYI board members in 2023 IEYI preparatory board meeting.

Essentiality of IEYI

The main objectives of IEYI are as follows:

- To cultivate young people's international outlook.
- To fuel students' understanding of the world around them by triggering scientific thinking and promoting learning of core concepts in science.
- To provide students with design knowledge and skills needed for their future career.
- To stimulate the creative approach for innovations and inventions.
- To develop applicable skills such as problem-solving, critical thinking, and communication skills in students.
- To create an atmosphere of freedom of thought for the development of young inventors in the creative environment.
- To strengthen the interchange of cultures and to encourage the acculturation of youth invention.

2. Important Dates

Dates	Events
July 1 ~ August 31, 2023	Online Registration
※Teams should complete the registration, including submitting application forms to IEYI website: www.ieyiun.org	
Aug 31, 2023	Application Forms Submission & Video Upload Deadline
※ Video should be uploaded to an open platform first, attach the video link in the “invention information form” and upload the form onto IEYI website: www.ieyiun.org	
Sep.1 ~ Sep.15, 2023	Application Forms Review
※ Teams will only receive a letter from IEYI office when the submitted document needs to be revised. List for teams that completed the registration will be announced after Sep.20 at once on the IEYI website: www.ieyiun.org	
Sep.20, 2023	Revised & Deadline of Resubmit Application Forms
※ If the submitted forms are not completed, teams will receive a notification letter. Please revise the forms according to the instruction in the letter.	
Oct.1 ~ Oct.27, 2023	Judges Evaluation & Discussion
Nov.1, 2023	Final Results Announcement

※Taiwan time (GMT+8).

3. Contestants

3.1 Contest groups: International Exhibition for Young Inventors is divided into two divisions.

3.1.1 *Junior Group* for students from 6 to 13 years old.

3.1.2 *Senior Group* for students from 14 to 19 years old.

3.2 Team members:

3.2.1 Each team can have up to 3 contestants, 3 advisors. (The **third** advisor is optional and only allowed as an English instructor.)

3.2.2 Art Technology Category: there can only be 1 contestant, 2 advisors in each team. (The **second** advisor is optional and only allowed as an English instructor.)

- 3.3 Team registration limits:** Each country is allowed to register multiple teams in different invention categories.
- 3.4 Inventions limits:** Each contestant is only allowed to participate with one invention or artwork.

4. Video Submission

4.1 Video Uploading Issues:

4.1.1 Uploading video platform: Please upload your video to an online platform (e.g. YouTube, Google Drive...).

4.1.2 Alternatives: Private settings of the video must be set as “public” in order for judges to evaluate during the evaluation period.

4.1.3 Accessibility: After the evaluation period, teams can decide whether to open the link to public or not (see appendix A and A-1).

4.2 Video format:

4.2.1 Title: “Invention Number (given through system when registering online) & Invention Title” (e.g. ERJR001 Smart wallet).

4.2.2 Length: Within 1~2 minutes. (Opening and ending of the film should be included).

4.2.3 Ratio: The standard aspect ratio for the invention video is length to width 16:9 or 4:3.

4.2.4 Content: Students must elaborate on three main subjects: Creativity, Operability, and Marketability & Benefits in the video.

4.2.5 Specification: The video can be shot by any kinds of electronic devices.

4.2.6 Others:

- English caption (i.e. subtitle) is suggested.
- High resolution is suggested.
- Special effects and background music used in the video will **not** be graded.
- “Invention Number & Invention Name” is recommended to be put on the upper right or left corner of the video for the judges’ reference.
- Please make sure the recording environment have no external interference.
- Please make sure the audio is clear and understandable with appropriate volume.
- Please make sure the link provided is accessible. (e.g. if you upload the video on YouTube, make sure you set the private setting to “public”).

5. Registration

- 5.1 Requirements of participation:**
- 5.1.1 The age limitation:** Contestants must be students between 6 to 19 years old (i.e. students from elementary schools, junior high schools, senior high schools or vocational high schools).
 - 5.1.2 Writing style:** Contestants and advisors should provide official *Romanized* names (i.e. spelled with English alphabets), as shown on the passport, in their registration documents. All the registration information must be filled out in English.
 - 5.1.3 Avoiding Typos:** **The award certificates will be printed in English based on the names provided in the registration documents. Please make sure that your English name is correct when registering.**
- 5.2 Date of registration:** The online registration period: from July 1 to August 31, 2023
- 5.3 Online registration link:** <http://www.ieyiun.org/>
- 5.4 Steps to register:**
- 5.4.1 To ensure understanding:** Please read the IEYI Rulebook thoroughly.
 - 5.4.2 To save time of registration:** Please follow the instructions in the registration guideline (URL: <https://reurl.cc/vdge0A>) to register online.
To check providing information correctively: ※Please choose an instructor in the team as the representative to register to ensure the information is correct.
 - 5.4.3 Documentation:** Fill out required documents including registration form, invention introduction form and payment form (Forms can be downloaded through website, see registration guideline “Step.18”, or use Appendix A, B & C attached at the end of rulebook.), and upload all the completed documents to the website.
※ Please reconfirm all the information is correct when completing.
 - 5.4.4 Registration Deadline:** Please complete all the procedures according to application handbook before August 31, 2023 Taiwan time (GMT+8).
- 5.5 Registration fee:** 100 USD per invention.
- 5.6 Payment methods:** Please remit the registration fee to the following account.

Beneficiary Bank: E.SUN COMMERCIAL BANK, LTD., Taipei, Taiwan

Branch: Heping Branch

Account Name: Taiwan Creativity Development Association

SWIFT CODE: ESUNTWTP

Bank Account Number: 0107-441-346429

Any transaction fees involved in the transfer must be covered by the transferees. (i.e. who issues the transfer).

After the payment, please paste the receipt or remittance on the PAYMENT FORM (please see Appendix C).

Please pay the fee before **August 31**, 2023 Taiwan time (GMT+8). Any entry that does not pay on time will be disqualified.

6. Invention Criteria

Creation must adhere to all exhibition specifications. The invention must be safe and not belong to the field of basic scientific research or pure art creations. General criteria are listed below:

- (1) **Exclusion 1:** Pure art creations such as poetry, songs, short stories, sculptures, etc., will **NOT** be qualified for this exhibition.
- (2) **Exclusion 2:** Basic or pure scientific research experiments involving living organisms will **NOT** be qualified for this exhibition.
- (3) **Exclusion 3:** Inventions must be safe. **NO** explosives, corrosives, poison substances and combustible materials are allowed.

6.1 Invention categories

An invention must be registered in one of the following ten categories:

- (1) **Disaster Management:** Inventions are useful in detecting, preventing natural disasters or post-disaster management (e.g. technologies/ products/ systems).
- (2) **Education:** Inventions that show usefulness in classrooms or elsewhere for educative purposes.
- (3) **Recreation & Sports:** Invention that improves activities involve in recreational purposes (e.g. sports, entertainment, etc.)
- (4) **Foods & Agriculture:** Inventions that improve the qualities of agricultural practices or inventions that solve contemporary food issues. This category involves only inventions that belong to system/technology/product but does not include the food item itself.

** Creation should not involve any living organisms.(This item can be excluded via video exhibition)*
- (5) **Green Technology & Sustainability:** Inventions that create sustainability, reduce pollution, promote energy efficiency, and environmentally friendliness.
- (6) **Safety & Health:** Inventions that contribute to safety and health (e.g. devices, system, practices).
- (7) **Technology for Special Needs:** Inventions that contribute to the convenience of minorities, people with special needs (e.g. children, people with disability, pregnant

women).

- (8) **Technology for Elderly People:** Inventions that contribute to the convenience of the special needs of elderly people.
- (9) **Industrial Design & Convenience Devices for Daily Life:** Inventions that are useful and improve the convenience of the daily life routine (e.g. cleaning tools, kitchen tools, etc.).
- (10) **Artwork:** Artwork illustrating imaginations of the future world, consisting of new forms of science and technology.

6.2 Invention specifications

6.2.1 Invention Material

Inventions or devices will be displayed in public. Materials of the invention can be considered and used at one's own desire. However, the materials should be durable or non-fragile and safe. Inventions or devices made of dangerous, rotten materials or living organisms will be disqualified.

6.2.2 Specification

6.2.2.1 Invention:

- (1) **About the weight:** Inventions should be *less than* **10 kilograms**.
- (2) **About the size:** The size of inventions should not exceed **1 meter** in width, length and height.
- (3) **Software design:** If the invention is a computer program, made of materials which are not durable or does not possess lasting effect, participants should explain the purposes, creation process and model of inventions through other means other than actual demonstration (i.e. with Power point and VCR or other aids).
- (4) **Addition presentation:** Participants can use handouts (A4 size, two-sided) or brochures to exhibit and explain their inventions in the video. (i.e. this regulation is not applicable to 2023 IEYI World Virtual Contest)

6.2.2.2 Artwork

- (1) **The spec. of drawing paper:** Artwork should be drawn on B4 drawing paper (38 centimeter*27centimetre).
- (2) **Painting materials:** Artwork can be expressed in various painting methods such as water-colour, crayon, paint, ink, colour pencil, etc.
- (3) **Exclusion:** Sketches, clip art and three-dimensional models are not allowed.

7. Judging Scheme

7.1 The composition of judges: The judging panel will be primarily comprised of delegates from the member institutions/countries. The accumulated scores of each invention

from all the judges will form the basis for the awards.

7.2 Invention scoring method:

7.2.1 The invention is judged from multiple aspects by experts in related fields.

7.2.2 The invention will be scored according to **Creativity**, **Marketability & Benefits**, and **Operability**.

7.2.3 Each judge is only responsible for one section, and the score is based on the scoring criteria to prevent individual judges from affecting the results of a respective invention.

7.2.4 Table 1 below shows the temporary scoring rubrics.

Table 1: Scoring criteria for each invention

Scoring Criteria	
Creativity (40%)	<i>Innovative Function (13%)</i>
	1. High: Newly innovative functions (more prospective than current existing products) (10-13%)
	2. Middle: Refined and better function (6-9%)
	3. Low: Mildly progressive (similar to current existing products) (1-5%)
	<i>Innovative Machining (12%)</i>
	1. High: High-quality machining process (9-12%)
	2. Middle: Improve some parts of the machining process (5-8%)
	3. Low: Mildly progressive (similar to current existing products or process) (1-4%)
	<i>Application of Scientific Nature (13%)</i>
	1. High: Various application of scientific nature with high innovation (10-13%)
	2. Middle: Several applications of scientific nature with less innovation (6-9%)
	3. Low: Few application of scientific nature with no innovation (1-5%)
	<i>Patentability (2%)</i>
	1. High: Invention patents has pended (National or International) (2%)
	2. Middle: Modification patents has pended (National or International) (1%)
	3. Low: No patent (0%)
	✗ Patent certificate should show the name of either instructors or participants.
	Total score of creativity _____

Marketability & Benefits (30%)	<i>Environmental Friendly (10%)</i>
	1. High: Recyclable and eco-friendly with less pollution. Meets 4R environmental concepts (7-10%)
	2. Middle: Partially recyclable and eco-friendly with a certain amount of pollution. Meets 4R environmental concepts (4-6%)
	3. Low: Non-recyclable and not eco-friendly with serious pollution. Fail to meet 4R environmental concepts (1-3%)
	<i>Market Demand (5%)</i>
	1. High: Completely meets market demands (4-5%)
	2. Middle: Partially meets market demands (2-3%)
	3. Low: Fail to meet market demands (1%)
	<i>Social Contribution (5%)</i>
	1. High: High social contribution (4-5%)
	2. Middle: A certain level of social contribution (2-3%)
	3. Low: Low social contribution, even cause damage to the society (1%)
	<i>Appearance (5%) (shapes, colors, and sizes)</i>
	1. High: Appearance meets the usage situation (4-5%)
	2. Middle: Special appearance but lack of innovation. (2-3%)
	3. Low: Appearance fail to fit the invention (1%)
	<i>Exquisiteness (5%)</i>
	1. High: High process of the appearance and dimensional accuracy (4-5%)
	2. Middle: Process of the appearance that fits normal end product (2-3%)
	3. Low: Poor process of the appearance (1%)
	Total score of marketability & efficiency _____
Operability (30%)	<i>Operation (10%)</i>
	1. High: Operational procedure is quick, easy, and labor-saving (7-10%)
	2. Middle: Operational procedure can be known after learning or training (4-6%)
	3. Low: Operational procedure is complex, time-consuming, and laborious (1-3%)
	<i>Constitutive Property (10%)</i>
	1. High: High stability. Inventions can be used repeatedly. (7-10%)
	2. Middle: Middle stability. Inventions can be used for a while. (4-6%)
	3. Low: Low stability. Inventions can only be used for few times. (1-3%)
	<i>Overall Collocation (10%)</i>
	1. High: High collocation of elements and design of the invention (7-10%)
	2. Middle: Middle collocation of elements and design of the invention (4-6%)
	3. Low: Low collocation of elements and design of the invention (1-3%)
	Total score of operability _____

* **Note:** The total score from each judge will be ranked. The judge panel will discuss and decide the final score for each invention based on ranking scores rather than on raw scores.

7.2 Artwork scoring method:

7.2.1 The artwork will be scored according to [Subjectivity](#), [Creativity](#), and [Composition](#).

7.2.2 Table 2 below shows the temporary scoring rubrics.

Table 2: Scoring criteria for each artwork

Scoring Criteria		
Subjectivity (40%)	Based on whether the drawn artworks and the content published by the students have future technology and scientific knowledge.	The novelty of conception
Creativity (30%)		
Composition (30%)	Colour and Structure	

8. Awards

8.1. The award allocation:

8.1.1 Golden awards: The top 12±2% of the inventions/artworks will receive golden award.

8.1.2 Silver awards: The top 13% to 38% (25% of the teams) of the total score will win the silver award.

8.1.3 Bronze awards: The top 39% to 69% (30% of the teams) of the total score will win the silver medal,

8.1.4 The rest of the inventions/artworks will receive Special awards.

8.2. Country Selected Medals:

8.2.1 Every 8 inventions/artworks from one country will guarantee 1 gold award.

8.2.2 Every 4-7 inventions/artworks from one country will guarantee 1 silver award.

8.2.3 Country that less than 3 inventions/artworks will guarantee with 1 bronze medal.

8.3 Online award ceremony: The award ceremony has always been a highlight moment of the IEYI event, where participants can show their brilliant ideas and receive recognitions for their hard work. Thus, the possibility of hosting an online award ceremony for all the medalist will be raised and discussed among board members of IEYI.

9. Contact Information

We welcome any feedback from member institutions regarding the virtual competition format or IEYI 2023. Kindly direct all correspondence or questions to the following email address: ieyitw@gmail.com. Your valuable feedback is much appreciated.

APPENDIX A: REGISTRATION FORM (Invention)

* Please complete one form per invention.

		Invention Number		
		Invention Category		
Country				
Name of Invention				
Inventor's Information				
Name of Inventor (Inventor 1)	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 150px; height: 120px; display: flex; align-items: center; justify-content: center; margin-right: 20px;"> PLACE PHOTO HERE </div> <div> (As stated in passport) First Name: Family Name: </div> </div>			
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	Name of School		
Age				
Date of Birth (Year/Month/Date)		Year in School		
Name of Inventor (Inventor 2)	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 150px; height: 120px; display: flex; align-items: center; justify-content: center; margin-right: 20px;"> PLACE PHOTO HERE </div> <div> (As stated in passport) First Name: Family Name: </div> </div>			
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	Name of School		
Age				

Date of Birth (Year/Month/Date)		Year in School		
Name of Inventor (Inventor 3)	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 10px; text-align: center; width: 150px;"> PLACE PHOTO HERE </div> <div style="text-align: right;"> (As stated in passport) First Name: Family Name: </div> </div>			
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	Name of School		
Age				
Date of Birth (Year/Month/Date)		Year in School		
Advisor's Information				
Name of Advisor (Advisor 1)	(As stated in passport) First Name: Family Name:			
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female		Fax	
Tel & Mobile			Email	
Job Title and School Name				
Name of Advisor (Advisor 2)	(As stated in passport) First Name: Family Name:			
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female		Fax	
Tel & Mobile			Email	
Job Title and School Name				
The third advisor can only be added when there are 3 contestants in the team that come from completely different school or there are both junior and senior contestants in a team.				

The third advisor is optional, but he or she must be an English teacher, who helps students with their English oral presentation skills.			
Name of Advisor (Advisor 3)	(As stated in passport) First Name: _____ Family Name: _____		
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	Fax	
Tel & Mobile		Email	
Job Title and School Name			

- ☐ I confirm the above submission details are true and correct. All information will be processed as per the entry form submitted and the information will not be able to be changed after the registration period.
- ☐ (*Optional*) I confirm that after final result announcement (November 1, 2023), the video of this invention could be open to public.

APPENDIX A-1: REGISTRATION FORM (Artwork)

* Please complete one form per artwork.

Invention Number

Invention Category

Artwork

Country			
Name of Painting			
Inventor's Information			
Name of Inventor (Inventor 1)	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 150px; height: 120px; display: flex; align-items: center; justify-content: center; margin-right: 20px;"> PLACE PHOTO HERE </div> <div> (As stated in passport) First Name: Family Name: </div> </div>		
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	Name of School	
Age			
Date of Birth (Year/Month/Date)		Year in School	
Advisor's Information			
Name of Advisor (Advisor 1)	(As stated in passport) First Name: Family Name:		
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	Fax	
Tel & Mobile		Email	
Job Title and School Name			

The second advisor is optional, but he or she must be an English teacher who helps students with their English oral presentation skills.			
Name of Advisor (Advisor 2)	(As stated in passport) First Name: Family Name:		
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	Fax	
Tel & Mobile		Email	
Job Title and School Name			

- ☐ I confirm the above submission details are true and correct. All information will be processed as per the entry form submitted and the information will not be able to be changed after the registration period.
- ☐ (*Optional*) I confirm that after final result announcement (November 1, 2023), the video of this invention could be open to public.

APPENDIX B: INVENTION INFORMATION FORM (Invention)

					Invention Number			
					Invention Category			
Name of Invention					Country			
Name of School								
Size of the Invention	Length		Width		Height		Weight	
Link of the video								
<p>1. Please briefly explain the submission piece.</p> <p>(Please do not exceed 200-300 words in English.)</p>								
<p>2. Outstanding characteristics of the invention or device (what sets it apart from previous creations).</p>								
<p>3. Operation and effects of the invention or device.</p>								

4. Other points or aspects that should be considered.

5. Information on patents or other industrial property rights of this submission (if any). Please provide Information in English and patent-related document (picture).

Photograph of the exhibition piece

(Please show the internal structure of the work by illustration, if necessary.)

PLACE PHOTO HERE

APPENDIX B-1: INVENTION INFORMATION FORM (Artwork)

				Invention Number	
				Invention Category	Artwork
Name of Artwork				Country	
Name of School					
Size of the Artwork	Length			Width	
Link of the video					
<p>1. Please briefly explain the submission piece.</p> <p>(Please do not exceed 200-300 words in English.)</p>					
<p>2. Outstanding characteristics of the artwork.</p>					
<p>3. Other points or aspects that should be considered.</p>					

Photograph of the exhibition piece

PLACE PHOTO HERE

APPENDIX C: PAYMENT FORM

Country

NO.	School Name	Invention Number	Invention Name
1			
2			
3			
4			
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9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

100 USD per invention/artwork**Total:** _____ invention/artwork(s), _____ USD**Account Information:**

Beneficiary Bank: E.SUN COMMERCIAL BANK, LTD., Taipei, Taiwan

Branch: Heping Branch

Account Name: Taiwan Creativity Development Association

SWIFT CODE: ESUNTWTP

Bank Account Number: 0107-441-346429

Any transaction fees involved in the transfer must be covered by the transferees.

Please pay before the last day of registration, **August 31, 2023**. Any entries that do not pay on time will be disqualified. ※ **Please paste the payment receipt on the next page.**

Payment Receipt