

HKISO & HKICO FINAL 2020



<u>Theme Park</u> Universal Studio, Singapore



<u>Working Partner</u> National University of Singapore School of Computing



Attractions

Merlion Park

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Website: http://www.hongkongiso.org/



Attractions

Gardens by the Bay

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Website: http://www.hongkongico.org/

HKISO Background

Hong Kong International Science Olympiad, HKISO is organized by Olympiad Champion Education Centre from Hong Kong, a registered educational centre listed on Education Bureau of Hong Kong (EDB Reg No: 598 216) to provide Science Olympiad classes in Hong Kong.

Mr Lai Chun Yin, former Gold winner from Hong Kong Physics Olympiad in 2017, gold winner in MATHEMATICS & PHYSICS in The Hong Kong Polytechnic University Secondary School Mathematics and Science Competition in 2018, is also a former IMO winner.

To inspire curiosity and an attitude of discovery, to promote the understanding that progress has been happening in scientific fields for centuries, to encourage the integration of ideas and subjects, to encourage truth-seeking, to allow students to study important scientists who asked good questions and worked towards good answers, we all decide to organize Hong Kong International Science Olympiad (HKISO) that included a mini experiment in the heat round.

HKICO Background

Hong Kong International Computational Olympiad, HKICO is organized by Olympiad Champion Education Centre from Hong Kong, a registered educational centre listed on Education Bureau of Hong Kong (EDB Reg No: 598 216) to provide Computational Olympiad classes in Hong Kong.

Mr Hayden Lee, former GOLD winners from HKOI in Junior Secondary Group in Year 2016/17, former winners from 35th National Olympiad in Informatics, China (NOI) in Year 2018.

Computational thinking involves using a set of problem-solving skills and techniques that software engineers use to write programs and apps. Hong Kong International Computational Olympiad promotes problem solving skills and Informatics concepts including the ability to break down complex tasks into simpler components, algorithm design, pattern recognition, pattern generalisation and abstraction.

HKISO & HKICO Schedule

	HKISO Heat Round	HKICO Heat Round		
Period	Sep – Dec 2019	Jan – Mar 2020		
Deadline for Registration	Depend on your decision	Depend on your decision		
Result to be released	15 th Dec 2019	19 th Apr 2020		
Place	At your own region	At your own region		
Jointed-Camp for HKISO & HKICO Final Round	$25^{\text{th}} - 29^{\text{th}}$ June 2020 at Singapore			

HKISO & HKICO Competition Details

Comp	Competition Name HKISO		HKICO		
	Stage	Heat Round	Final Round	Heat Round Final Round	
No.o	f Questions	20	24	20 24	
Type of Questions		MCQ 5 options A / B / C / D / E	MCQ 5 options A / B / C / D / E	MCQ 5 options A / B / C / D / E	MCQ 5 options A / B / C / D / E
	Correct	+2	+2	+2	+2
Scoring	Empty	0	0	0	0
	Wrong	-1	-1	-1	-1
Topics	Physics	5	6	5	6
	Biology	5	6	5	6
	Chemistry	5	6	5	6
	Integrated Science	5	6	5	6
Time Allowed		60 minutes	90 minutes	60 minutes	90 minutes
Language		English Or your own region language			

Grades

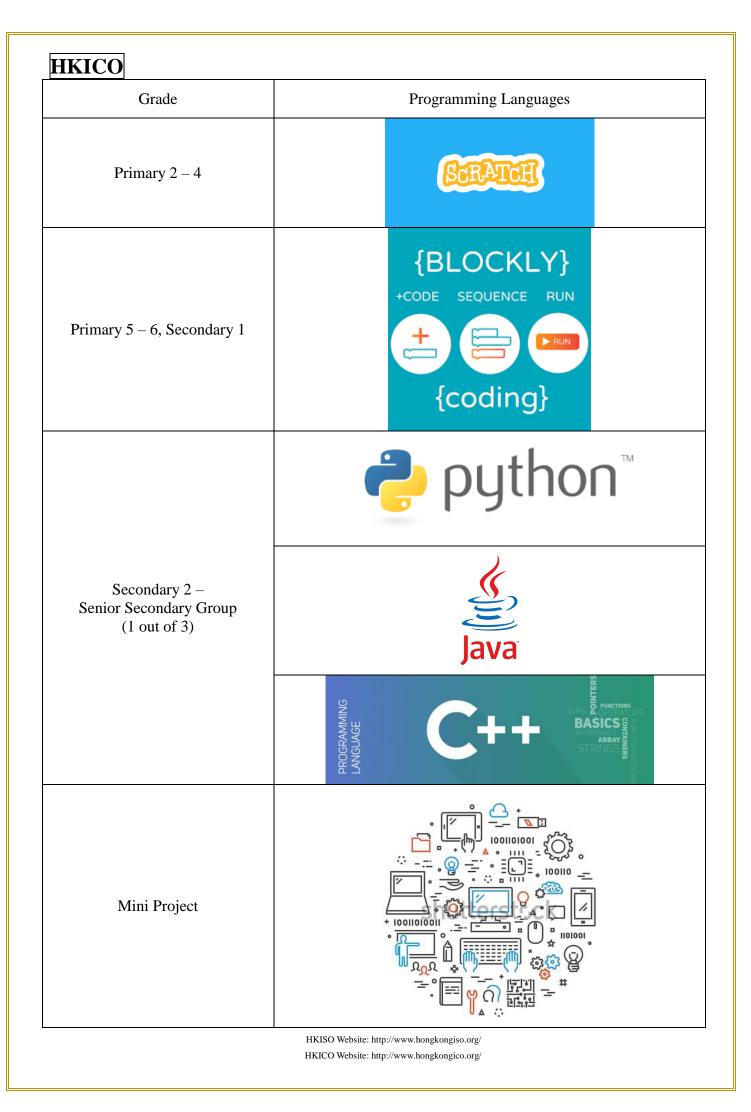
	Kindergarten Group	Primary Group	Secondary Group
	Kindergarten Group	Primary 1	Secondary 1
		Primary 2	Secondary 2
		Primary 3	Secondary 3
		Primary 4	Senior Secondary Group
		Primary 5	
	Primary 6		

HKISO V= 4+2as pE=mgh Physics S ()Biology Chemistry Integrated Integrated Science Science Curriculum The **Experiment** Mini Experiment

Schedule	1^{st} Sep – 24^{th} Nov 2019		
Duration	Less than 5 minutes		
Deadline	24 th Nov 2019 (HKT 23:59)		
Target Audience	ALL participants for HKISO Heat 2019		
Language	In ENGLISH ONLY		
Admission Fee	FREE		
Time for submitting the video	ONCE *If participants submit the product more than ONCE, they will be disqualified.		
How to submit	Uploaded on YOUTUBE and submit the link to HKISO*HKISO has the exclusive right to upload winners' video on HKISOwebsite		
Result to be released	15 th Dec 2019 (Together with Heat Round)		
Marking	 A. Scientific Knowledge (40%) To elaborate the scientific concept clearly To provide accurate content in FULL angles of views with strong supporting evidence B. Creativity (30%) To create the presentation in an interesting, attractive, innovative way For visual stimulation C. Presentation Skills (30%) To represent the idea clearly To well-organize the presentation in order To represent in fluent English 		
Topics	No assigned topics Related to Science		

Remark:

- HKISO has the final decision on the eligibility of the participants.
- Decision made by the panel of judges shall be final. In case of any dispute, HKISO reserves the final decision.
- HKISO accepts no responsibility for any data submission delay, lost, error, non-recognizing etc. situations due to computer, network and other technical issues. The proof of dispatch cannot be accepted as proof of delivery or successful transmission of the entry.
- Participants have to ensure that the submitted entries do not contain abusive language, or content related to sex and violence, infringe or violate any copyright or trademark rights, or violate the intellectual property undelegated copyrighted materials. Failure to comply will result in the submission not being valid for entry. HKISO reserves the right to delete the related content, remove the eligibility of any participants who have violated any of the above guidelines as well as the right to take legal actions. HKISO will not hold any responsibility for such infringing acts.



Schedule	1^{st} Jan – 29 th Mar 2020		
Duration	Less than 5 minutes		
Deadline	29 th Mar 2020 (HKT 23:59)		
Target Audience	ALL participants for HKICO Heat 2019		
Language	In ENGLISH ONLY		
Admission Fee	FREE		
Time for submitting the video	ONCE *If participants submit the product more than ONCE, they will be disqualified.		
How to submit	Uploaded on YOUTUBE and submit the link to HKICO *HKICO has the exclusive right to upload winners' video on HKICC website		
Result to be released	19th Apr 2020 (Together with Heat Round)		
Marking	 A. Programming Knowledge (40%) To elaborate the programming concept clearly To provide accurate content in FULL angles of views with strong supporting evidence B. Creativity (30%) To create the presentation in an interesting, attractive, innovative way For visual stimulation C. Presentation Skills (30%) To represent the idea clearly To well-organize the presentation in order To represent in fluent English 		
Topics	No assigned topics Related to Programming		

Remark:

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- Decision made by the panel of judges shall be final. In case of any dispute, HKICO reserves the final decision.
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Award	Heat Round	Final Round	Winners will get
Champion	The highest scorer in each grade by global ranking	The highest scorer in each grade by global ranking	The Champion Trophy Certificate & Medal
1 st Runner-up	The 2 nd highest scorer in each grade by global ranking	The 2 nd highest scorer in each grade by global ranking	1 st Runner-up Trophy Certificate & Medal
2 nd Runner-up	The 3 rd highest scorer in each grade by global ranking	The 3 rd highest scorer in each grade by global ranking	2 nd Runner-up Trophy Certificate & Medal
Gold Award	About 8% winners in each grade	About 8% winners in each grade	Certificate & Medal
Silver Award	About 16% winners in each grade	About 16% winners in each grade	Certificate & Medal
Bronze Award	About 24% winners in each grade	About 24% winners in each grade	Certificate & Medal
Merit Award	Winners scored above the standard level	Winners scored above the standard level	Certificate

*If the same score case happened, HKISO / HKICO will consider winner's Date of Birth. The younger winner will be ranked higher.

HKISO & HKICO Prizing for Mini Experiment / Mini Project

Award	Heat Round	Final Round	Winners will get
Champion	The highest scorer in each grade by global ranking	The highest scorer in each grade by global ranking	The Champion Trophy Certificate
1 st Runner-up	The 2 nd highest scorer in each grade by global ranking	The 2 nd highest scorer in each grade by global ranking	1 st Runner-up Trophy Certificate
2 nd Runner-up	The 3 rd highest scorer in each grade by global ranking	The 3 rd highest scorer in each grade by global ranking	2 nd Runner-up Trophy Certificate
Gold Award	About 8% winners in each grade	About 8% winners in each grade	Gold Award Trophy Certificate
Silver Award	About 16% winners in each grade	About 16% winners in each grade	Silver Award Trophy Certificate
Bronze Award	About 24% winners in each grade	About 24% winners in each grade	Bronze Award Trophy Certificate

*For BOTH Heat & Final Round, the result for Mini Experiment and Mini Project **WILL NOT** affect the paper-based result.

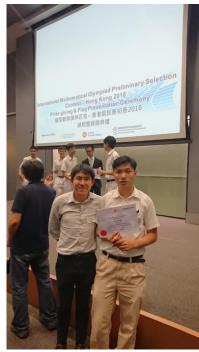
Chief Committee



<u>Chief Marking Committee for</u> <u>HKISO Mini Experiment</u> Prof. T.W. Dominic CHAN Professor from Chinese University of Hong Kong



<u>Chief Marking Committee for</u> <u>HKICO Mini Project</u> Prof TAN Sun Teck Associate Professor from National University of Singapore



<u>Marking Committee for</u> <u>HKISO Mini Experiment</u> Mr Lai Chun Yin, GOLD winner in Hong Kong Physics Olympiad (2017)



Marking Committee for <u>HKICO Mini Project</u> Mr Hayden Lee, former GOLD winners from HKOI in Junior Secondary Group in Year 2016/17