

# Hong Kong Physics Olympiad 2022

## 2022 香港物理奧林匹克

### Details and Regulations 比賽詳情及規則

**(Schools should make a copy of this "Details and Regulations" to each student nominee for reference. 請學校複印此「比賽詳情及規則」並派發給每位獲提名的學生，以供參考。)**

1. **Date 舉行日期**：18 Sep 2022 二零二二年九月十八日
2. **Time 時間**：2:00 p.m. - 5:00 p.m. (be seated at 1:30 p.m.; make announcement at 1:45 p.m.)  
下午 2:00 正至下午 5:00 正（下午 1 時 30 分進場就坐；下午 1 時 45 分大會宣佈）
3. **Venue 地點**：To be confirmed 待定
4. **Notes on Nomination 提名須知**：
  - 4.1. Each secondary school may nominate **up to FIFTEEN students of Secondary Four or below for 6-year secondary schools; or of Grade 10 or below for 7-year secondary schools in school year 2021/22 for the captioned contest. Please rank all nominated students in priority on the Online Nomination Form and submit all the nominations at the same time. If the number of nominees exceeds the capacity, places will be granted according to the priority of nominees on the Nomination Form.** All the former Phase I students in the previous years of "Enhancement Programme for Gifted Students" still need to join this round of HKPhO as a selection. 每所中學可提名**最多十五名於 2021/22 學年為六年制中學中四或以下的學生，或七年制中學十年級或以下的學生參加比賽。請將所有提名學生以優先次序排列，並一次過提交網上提名表格。若獲提名的學生人數超過預定的限額，學生的參賽資格將按提名表格上的優先次序決定。**曾於「資優學生物理培訓課程第一階段」晉升至第二階段的學生，仍須參加本屆香港物理奧林匹克的選拔。
  - 4.2. Student members of The Hong Kong Academy for Gifted Education (HKAGE) are not counted in the quota and there is no limit on the number of participants for student members of the HKAGE. 香港資優教育學苑學員不計算在名額之內，其參加人數亦不設上限。
  - 4.3. The age of the nominated students **should not exceed twenty years, as of June 30, 2023** and will still be secondary school students in Hong Kong in the school year 2022/23. 所有獲提名學生於**2023 年 6 月 30 日為止年齡須為二十歲或以下**，並於 2022/23 學年仍就讀於香港的中學。
  - 4.4. School participating in the event is also requested to nominate a teacher-in-charge to coordinate the event. 參賽學校須委派一名負責教師協助統籌學生參賽。
  - 4.5. Schools may nominate students through the HKAGE website (<http://ge.hkage.org.hk>) **on or before 17 May 2022 (Tuesday by 12:00 n.n.)**. 學校可於**2022 年 5 月 17 日（星期二正午 12 時或之前）**經香港資優教育學苑網頁（<http://ge.hkage.org.hk>）提名學生參賽。
  - 4.6. **Self-application from students** are open for the Hong Kong Physics Olympiad 2022. All applicants must **fulfill the requirement as stated in Item 4.1 and 4.3.** Applications are accepted on a first-come-first-served basis providing that the school quota has not been filled up. 2022 香港物理奧林匹克亦接受學生自行報名申請，但必須符合第 4.1 及 4.3 項所列之要求。若學校提名名額未滿，學生的報名申請將以先到先得方式處理。
  - 4.7. Upon submitting the application, the participants are deemed to have read, accepted and agreed to abide by the relevant regulations of the competition. 提名一經提交，即表示參賽者已閱讀、接受及同意遵守比賽的有關規則。
  - 4.8. **Self-applied students** may apply through the HKAGE website (<http://ge.hkage.org.hk>) **from 18 May 2022 (Wednesday from 12:00nn) to 7 June 2022 (Tuesday by 12:00 n.n.)**. 報名學生可於**2022 年 5 月 18 日（星期三中午十二時起）至 2022 年 6 月 7 日（星期二正午 12 時或之前）**經香港資優教育學苑網頁（<http://ge.hkage.org.hk>）報名參賽。
  - 4.9. Results of applications, Participant ID Number of contestants and other details will be released **after 5:00pm on 1 August 2022 (Mon) on the website of the HKAGE (<http://ge.hkage.org.hk>)**. School principals, teachers and students concerned should take the initiative to check the details. **No further notification will be given.** 報名結果、學生參賽編號及其他有關詳情，將於**2022 年 8 月 1 日（星期一）下午 5:00 後在香港資優教育學苑網頁（<http://ge.hkage.org.hk>）公佈**，校長、教師及相關學生屆時須自行上網查閱詳情，**恕不另函通知**。

## 5. Mode of Competition 比賽形式：

- 5.1. The contest is comprised of a three-hour written test. 比賽以筆試形式進行，限時三小時。
- 5.2. Contestants are not allowed to leave the contest venue within the first 90 minutes and the last 15 minutes of the contest. Consent of the invigilators must be obtained for early leave. 參賽學生於比賽開始後的首 90 分鐘及比賽完結前的 15 分鐘均不得早退。早退的參賽學生均須獲得監考員的允許方可離開比賽場地。
- 5.3. Those who arrive at the designated venue 30 minutes after the starting time of the competition will be disqualified and will not be allowed to enter the venue. 以比賽開始時間計算，遲到超過三十分鐘者將被取消資格，並不准進場參賽。
- 5.4. There will be multiple-choice and open-ended questions in bilingual versions. Contestants should answer all the questions, either in Chinese or in English. 試題分為選擇題及開放式問答題，題目中英對照，參賽學生可選擇以中文或英文解答全卷所有題目。
- 5.5. Contestants should present the steps and solutions clearly when solving open-ended questions. 作答開放式問答題時，參賽學生須清楚交代解題步驟。
- 5.6. For details of questions and solutions of past years, please visit the HKAGE website <http://ge.hkage.org.hk>. 有關歷屆比賽試題和題解，請瀏覽香港資優教育學苑網頁 <http://ge.hkage.org.hk>。

## 6. Notes on Competition 比賽須知：

- 6.1. Questions set will mainly be based on the Hong Kong Diploma of Secondary Education Physics Syllabus, but will also cover other topics. For the scope of the competition, please visit the HKAGE website <http://ge.hkage.org.hk>. Besides, contestants are suggested to read “Physics Enhancement Programme – Student Self-learning Booklet” for further reference. 題目主要以香港中學文憑物理課程為基礎，亦會涉及其他範疇。有關比賽範圍，請瀏覽香港資優教育學苑網頁 <http://ge.hkage.org.hk>。此外，參賽學生可參考《物理培訓課程－學生自學冊》。
  - 6.2. Only calculators approved by The Hong Kong Examinations and Assessment Authority with “HKEAA APPROVED” logo can be used for the event (<http://www.hkeaa.edu.hk/DocLibrary/IPE/cal/CAL2019.pdf>). Measuring instruments like rulers, compasses, etc. can also be used. No stationeries will be provided. 比賽時，學生可使用香港考試及評核局認可型號、印有“HKEAA APPROVED”字樣的計算機 (<http://www.hkeaa.edu.hk/DocLibrary/IPE/cal/CAL2019.pdf>)。直尺、圓規及其它量度工具亦可作輔助之用。大會不提供任何文具。
  - 6.3. No equations/formulae will be provided. 試卷並不提供任何方程式或公式。
  - 6.4. Contestants must report to the designated venue in school uniform punctually and bring along their Hong Kong Identity Cards and Student Identity Cards. Those who failed to comply may risk disqualification. 參賽學生須準時於比賽當日到達比賽場地報到，並必須穿著整齊校服及帶備香港身份證和學生證，否則其參賽資格可能會被取消。
  - 6.5. Any changes in the regulations will be announced on the day of the event. 賽例如有更改，將於比賽當天公佈。
  - 6.6. Queries should reach the officer-in-charge immediately after the event. The decision of the HKPhO Committee will be final. 如有疑問，參賽學生須於比賽完畢後，立即向會場主任提出。香港物理奧林匹克委員會有最終的裁決權。
7. There will be individual First, Second, Third Honour Awards, Honourable Mentions and Outstanding Student Performance Awards. The Outstanding Student Performance Awards include a Champion, a 1st Runner-up, a 2nd Runner-up and the Best Junior Student Award. There are also “Best Schools Awards”, “Honourable Mention for Schools” and “Best New Coming Schools Awards”. “The Best New Coming Schools Awards” will be awarded to the best three new schools with no participation at the HKPhO within last 3 years and should receive at least one individual award at the HKPhO 2022. 本賽事設有個人一等獎、二等獎、三等獎、優異獎及學生傑出表現獎。學生傑出表現獎包括冠軍、亞軍、季軍及最佳初中生獎。另設「學校最佳表現獎」、「學校優異表現獎」及「新參與學校最佳表現獎」。「新參與學校最佳表現獎」將頒發給三所表現最佳的新參與學校。獲「新參與學校最佳表現獎」的學校必須在過去三年內從沒有參加香港物理奧林匹克，並在香港物理奧林匹克 2022 獲得至少一個個人獎項。

8. Only the awardee list will be announced in the competition result. The decision of HKPhO Committee is final for all competition-related matters and all stakeholders shall not raise any objection on the decision. 比賽結果只會公佈各獎項的得獎者名單。香港物理奧林匹克委員會對比賽的一切事宜擁有最終裁決權，所有相關人士不得異議。
9. The First, Second and Third Honour awardees will be eligible to apply in the “Enhancement Programme for Gifted Students in Physics – Phase I”. After obtaining a completion grade in the phase I training, students of appropriate age will be invited to apply for HKAGE student membership through the “Nurturing the Gifted Scheme”. For enquiries, please contact School and Student Services Division at 3940 0101 or by email to [sss@hkage.org.hk](mailto:sss@hkage.org.hk) 獲一等獎、二等獎及三等獎的學生，均合資格參加「資優學生物理培訓課程第一階段」。按要求完成第一階段培訓後，適齡學生將獲邀經由「尖子培育計劃」申請成為香港資優學苑學員。如有查詢，請致電 3940 0101 或電郵至 [sss@hkage.org.hk](mailto:sss@hkage.org.hk) 與學校及學生服務部聯絡。
10. Results and arrangements of the Prize-giving Ceremony and follow-on enhancement programmes will be announced in October 2022 through the HKAGE website (<http://ge.hkage.org.hk>). Schools and students may refer to the website for details. 比賽結果、頒獎禮及賽後增益培訓課程之安排將於 2022 年 10 月在香港資優教育學苑網頁（<http://ge.hkage.org.hk>）公佈。學校及學生請瀏覽該網頁查閱有關詳情。
11. For enquiries, please contact us by email [hkpho@hkage.org.hk](mailto:hkpho@hkage.org.hk) or on 3940 0502 or 3940 0504. 如有任何查詢，請電郵 [hkpho@hkage.org.hk](mailto:hkpho@hkage.org.hk) 或致電 3940 0502 或 3940 0504。