



Hong Kong STEM Olympiad 2016

Come and join us for

CHALLENGES IN STEM "KNOWLEDGE AND PRACTICE"!

08 July 2016



Organizers:



For more detail, please visit



Co-organizers:



Major Supporters:



Major Sponsor:



Hong Kong STEM Olympiad 2016

OBJECTIVES:

- To provide senior secondary school students with informal learning opportunities to deepen their understanding of STEM, and to enhance their interest in pursuing further study in STEM subjects and career; and
- To create an atmosphere conducive to the teaching and learning of STEM in secondary schools, and to heighten teachers' and students' awareness of the importance of STEM education.

FEATURES:

- The STEM Olympiad consists of two parts:
 - Part I: "STEM-related Knowledge Challenge (知識大檢閱)" – Students will participate on both individual and team basis to demonstrate their knowledge in relation to STEM subjects.
 - Part II: "Innovations in Practice (創新實踐大挑戰)" – Students will work in teams to solve a set of problems and create an innovative design, artefact or solution that requires integration and application of STEM related knowledge and skills.
- **NO prior training or preparation is required. Students will come for a challenging and enjoyable event to**
 - acquire new knowledge, skills and insights into STEM education through participating in the competition;
 - reflect on their future orientation with respect to STEM studies and careers; and
 - be rewarded with medals, trophies, prizes (coupons and/or mobile devices) and certificates of High Distinction, Distinction, or Credit

DATE: 8th July, 2016 (Friday, whole day)

VENUE:

The Education University of Hong Kong (Tai Po Campus)

ELIGIBILITY FOR APPLICATION:

- S.5 & S.6 students could form teams of four to participate in the event. Each team could comprise four S.5 and/or S.6 students in any combination.
- Each team should comprise students taking the subjects of Physics, Chemistry, Biology and ICT so that the team should be able to solve problems related to all these four areas. All members are expected to have studied core mathematics.
- All schools are invited to nominate one to four teams.
- Priority will be given to schools that nominate teams comprising S.6 students.

RUNDOWN OF THE COMPETITION:

Rounds	Items	Type of question
Morning Session Part I: Knowledge Challenge	Part I (a): Individual Knowledge Challenge <i>Members of each team</i> to answer a set of questions in one of the four areas (Physics, Chemistry, Biology, or ICT)# respectively	MC questions*
	Part I (b): Team Knowledge Challenge <i>Each team</i> to answer <i>mathematics problems</i> related to all the four areas (Physics, Chemistry, Biology, and ICT)	MC questions*
Afternoon Session Part II: Innovations in Practice	Part II: Innovations in Practice <i>Each team</i> to solve a selected problem and create an innovative design, artifact or solution by integrating and applying STEM knowledge and skills	Hands-on problem solving and design

*Questions both in English and Chinese will be provided.

Under special circumstances, a team may give up one subject area, and have two members choosing the same subject in another area.

MAJOR PRIZES AND AWARDS (TENTATIVE):

- Individual awards (gold, silver and bronze medals) for three students with the highest ranking in each subject (Physics/ Chemistry/ Biology/ ICT) in Part I(a)
- Team awards (champion trophies for schools plus gold, silver and bronze medals for individuals) for Parts I(b) and II
- Grand prizes (coupons and/or mobile devices) for team members of the overall champion in Part II
- Certificates of High Distinction, Distinction, or Credit for all individuals achieving the standards required

IMPORTANT DATES:

Date	Item
20 May 2016	Briefing on Hong Kong STEM Olympiad 2016
09 May - 08 June 2016	On-line Application
08 July 2016	Hong Kong STEM Olympiad 2016

ENQUIRY:

Website: <http://www.eduhk.hk/stemo/> Email: stemo@eduhk.hk

Remark: The organisers reserve the rights to make necessary alteration of the rules and detailed arrangement.