

**Project Title:**

**Hands & Brains-on: Promoting STEM Education and Applying HOTS (High Order Thinking Skills) in General Studies**

**1. Support Service Co-ordinator**

School-based Professional Support Section, Quality Assurance and School-based Support Division, Education Bureau

**2. Network Co-ordinating School**

Hong Kong and Macau Lutheran Church Primary School

**3. Objectives**

The project aims:

- to assist the Participating Schools in promoting STEM education in General Studies so as to facilitate the connection among the three Key Learning Areas (KLAs), namely Science, Technology and Mathematics Education
- to assist teachers in designing hands-on and brains-on STEM education activities through which students' ability in applying knowledge and skills across different KLAs can be enhanced

**4. Foci of Support**

- To introduce the STEM education structure, course content and activities of the Network Co-ordinating School
- To assist the Participating Schools in activating or developing STEM education, designing school-based curriculum, science and technology inquiry activities and planning subject-based and cross-curricular STEM Education plans through conducting regular workshops and on-site support activities
- To assist the Participating Schools in designing STEM-related project learning activities with one school level as a starting point

**5. Modes of Support**

- On-site professional support services
- Regular meetings
- Lesson observations, school visits and professional exchange activities
- Sharing sessions or workshops

**6. Expectations on Participating Schools**

- Participating teachers are interested in school-based curriculum design and keen on promoting STEM education
- Representatives of the Participating Schools attend at least two meetings held in the school year with the Network Co-ordinating School and other Participating Schools on formulating strategies and work plans, etc.
- Participating Schools assign one teacher-in-charge to liaise with the Coordinating School and the related School Development Officer
- Participating Schools arrange regular timeslots for teachers concerned to attend meetings and participate in various professional development activities, e.g. collaborative lesson planning

- Participating Schools share with other teachers their experiences in school-based curriculum development and the materials and resources they develop, e.g. work plans, teaching materials and research reports
- Participating Schools observe strictly their legal obligations and, in all cases, comply with the Copyright Ordinance in developing school-based learning and teaching materials