

Title of School-based Support Service (On-site Support) (2024/25)

Quality Education Fund Thematic Networks – Schools:
Hands & Brains-on: Promoting STEAM Education (with Cross Curriculum Elements) and Applying HOTS (High Order Thinking Skills) in General Studies

1. Objectives

The support service aims:

- To assist participating schools in developing STEAM education by designing interdisciplinary units of learning and project learning according to the needs of the participating schools. It also involves incorporating elements of “reading to learn” and “e-learning” to enhance the connection among Science, Technology, Arts and Mathematics education
- To help participating schools design hands-on and brains-on science inquiry activities in the General Studies subject to enhance students' ability to integrate and apply knowledge and skills from different disciplines
- To assist participating schools in designing cross-disciplinary activities that promote high order thinking in Computer or Mathematics education, thereby enhancing students' creative problem-solving abilities, fostering their entrepreneurial spirit and positive values
- To strengthen the leadership role of teachers in participating schools and the ability to organise professional development training for teachers, thereby equipping teachers with knowledge, attitudes, and skills relevant to STEAM education

2. Foci of Support

- To foster the development of STEAM education and professional exchange in participating schools through sharing the STEAM education framework, curriculum content and related learning activities of the network co-ordinating school
- To assist participating schools in activating or developing STEAM education based on their school context, designing its school curriculum, science and technology inquiry activities and planning subject-based and cross-curricular STEAM education proposals through regular professional exchange activities
- To assist participating schools in designing STEAM-related project learning activities with one school level as a starting point

3. Modes of Support and Activities

- Support personnel collaborate with the core teaching team through regular meetings (9 times or more in the school year) to develop the school curriculum and conduct collaborative lesson planning, lesson observation and post-lesson discussion
- The core teaching team participates in cross-school professional development activities (5 times or more in the school year), sharing and promoting effective practices and resources to facilitate professional exchanges among schools
- Participating schools attend two Executive Committee (EC) meetings and an annual dissemination seminar to share the good practices generated and effective ways to cope with challenges encountered

4. Points to note

- Participating teachers are interested in school curriculum design and keen on promoting STEAM education
- Please visit the QEF website (<https://qcr.qef.org.hk/en/fund/activity.php?cate=8>) for details

