

Quality Education Fund Thematic Networks – Schools (2023/24)

Project Title:

Promotion of STEAM Education through the School Science and Bio-technology Curricula

1. Objectives

The project aims:

- to provide professional training and support to teachers and laboratory technicians of participating schools on bio-technology and STEAM education
- to support teachers in developing bio-technology and STEAM education learning activities for school junior secondary science curriculum so as to enhance students' knowledge and experimental skills in bio-technology as well as their creativity and problem solving skills
- to establish an interactive learning community to promote interschool interaction and professional exchange on professional technological innovation
- to promote bio-technology and STEAM education in the participating schools, the secondary school sector and in Hong Kong

2. Foci of Support

- To promote interschool interactions, professional sharing and exchange by organising various teacher professional development activities such as visits to biotech laboratories, seminars, workshops and experience sharing of the network coordinating school
- To co-plan lessons with participating teachers to help them develop a school curriculum related to bio-technology and STEAM education, develop and design related learning activities and explore inquiry-based learning and teaching strategies

3. Modes of Support

- To provide onsite support and conduct lesson study including collaborative lesson planning, lesson observation and post-lesson discussion
- To conduct networking activities such as open lesson, interschool lesson observations
- To share experience, network coordinating school lead participating schools to explore effective ways to implement bio-technology and STEAM education

4. Points to note

- The duration of the support services normally lasts for one year
- Participating schools nominate one teacher-in-charge to liaise with the support team and the related Curriculum 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 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

- Participating teachers share with other teachers their experiences in school curriculum development and the materials and resources they develop, e.g. work plans, learning and teaching materials, research reports and student work. (The copyright of these materials will be owned by the Quality Education Fund.)
- Participating schools should comply with relevant laws, such as compliance with the Copyright Ordinance in developing school-based learning and teaching materials
- Please visit the QEF website (<https://qcrc.qef.org.hk/en/fund/activity.php?cate=8>) for details

5. Support Service Coordinator

School-based Professional Support Section, Curriculum Support Division,
Education Bureau