

Quality Education Fund Thematic Networks – Schools (QTN–S) (2022/23)

Project Title:

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

1. Support Service Coordinator

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

2. Network Coordinating School

Ho Yu College and Primary School (Sponsored by Sik Sik Yuen)

3. Objectives

The project aims:

- to provide professional training and support to teachers and laboratory technicians of participating schools on bio-technology and STEM education
- to support teachers in developing bio-technology and STEM education learning activities for school-based 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 STEM education in the participating schools, the secondary school sector and in Hong Kong

4. Foci of Support

- To promote interschool interactions, professional sharing and exchange by organising various teacher professional development activities such as visiting 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-based curriculum related to bio-technology and STEM education, develop and design related learning activities and explore inquiry-based learning and teaching strategies

5. Modes of Support

- To lead participating schools to explore effective ways to implement bio-technology and STEM education by sharing with them the experience of the network coordinating school
- To co-plan lessons with participating teachers and conduct interschool lesson observation to strengthen professional exchange

6. Expectations on Participating Schools

- Participating schools nominate one teacher-in-charge to liaise with the support team and the related Curriculum Support 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 experience in school-based 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 observe strictly their legal obligations and, in all cases, comply with the Copyright Ordinance in developing school-based learning and teaching materials