

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

Project Title:

Practising STEAM Education in General Studies to Enhance the Effectiveness of Students' Learning of Science, Technology and Mathematics

1. Objectives

The project aims:

- to help teachers master in determining the teaching objectives, strategies and self-directed learning guidelines of STEAM, and design related learning portfolios, assessment methods and rubrics
- to establish an interactive teacher professional learning community to let teachers share their teaching design and experience
- to let teachers help students solve problems in daily life with STEAM knowledge
- to nurture students' perseverance, courage to innovate and an attitude of continuous improvement, and enhance their interest and curiosity in the world of science and technology, and concern about the impact of science and technology on society

2. Foci of Support

- To assist teachers in understanding the rationale of pedagogical designs of STEAM education so that more diversified learning materials can be designed for students
- To assist teachers in further understanding students' learning pace from student learning portfolios, and then enhance the effectiveness of learning and teaching
- To facilitate teachers' use of assessment tools to promote students' reflection and self-management

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 and workshops
- To build a professional learning community with the participating schools so as to facilitate mutual support and promote experience sharing and professional dialogue

4. Points to note

- The duration of the support services normally lasts for one year
- Participating schools nominate 3-6 General Studies teachers as core members of the project to attend every support activity
- 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://qcrq.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