

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

Project Title:

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

1. Support Service Coordinator

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

2. Network Coordinating School

St. Bonaventure Catholic Primary School

3. Objectives

The project aims:

- to enhance teachers' teaching skills of STEM education and scientific investigations, e.g. prediction, inquiry and observation
- to lead teachers to design student learning portfolios so as to enhance the learning effectiveness of students in STEM-related areas and to promote students' reflection and self-management
- to establish an interactive teacher professional learning community that promotes experience sharing and professional dialogue
- to facilitate the review and adaptation of school-based General Studies curriculum

4. Foci of Support

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

5. Modes of Support

- To provide on-site support according to the needs of individual schools, including collaborative lesson planning, lesson observations cum post-lesson discussions, seminars 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

6. Expectations on Participating Schools

- 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 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