

Project Title:

Practising STEM Education in General Studies to Enhance the Effectiveness of Students' Learning of Science, Technology and Mathematics (2021/22)

1. Support Service Co-ordinator

School-based Professional Support Section, Quality Assurance and School-based Support Division, Education Bureau

2. Network Co-ordinating School

St. Bonaventure Catholic Primary School

3. Objectives

The project aims:

- to enhance teachers' teaching skills of STEM education, e.g. prediction, inquiry, observation, conclusion and fair test
- to facilitate teachers to design student learning portfolios so as to enhance the learning effectiveness of students in STEM education and to enhance students' reflection and self-management skills using the learning portfolio as an assessment tool
- to establish an interactive professional learning community that allows teachers' mutual sharing of their experience of lesson design and teaching
- to facilitate the consolidation and adaptation of the school-based General Studies curriculum in the Participating Schools

4. Foci of Support

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

5. Modes of Support

- To assist the Participating Schools in assessing their current context and setting shared objectives, and to provide different kinds of support according to their needs, such as seminars, workshops, collaborative lesson planning and lesson observations
- To build a professional learning community with the Participating Schools for the purpose of facilitating mutual support and promoting the exchange of teaching experience

6. Expectations on Participating Schools

- Representatives of the Participating Schools attend the related meetings held in the school year with the Network Co-ordinating School and other Participating Schools on formulating strategies and work plans, etc.
- The Participating Schools arrange 3-6 teachers to attend each support activity
- Participating Schools assign one teacher-in-charge to liaise with the

Network Co-ordinating School and the related School 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 share with other teachers their experiences in school-based curriculum development and the materials and resources they develop, e.g. work plans, learning and teaching materials, research reports, 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