

Project Title:

How to Integrate STEM Education in School-based Curriculum of General Studies (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

Lok Sin Tong Leung Kau Kui Primary School (Branch)

3. Objectives

The project aims:

- to enhance General Studies teachers' ability in designing STEM activities
- to assist teachers of the Participating Schools in integrating STEM education and coding in the General Studies curriculum effectively so as to improve the planning of school-based curriculum through the development of curriculum leadership
- to integrate computational thinking into General Studies curriculum through the application of Micro:bit
- to enhance teachers' ability in designing "minds-on and hands-on science activities" so as to facilitate students' learning of science concepts and science process skills
- to promote cross-school interaction and professional exchanges by establishing a cross-school learning community
- to develop students' computational thinking and problem-solving skills

4. Foci of Support

- To assist the Participating Schools in designing, reviewing, and enhancing school-based STEM education and to make suggestions on the direction of the curriculum development
- To offer teacher training and workshops to the Participating Schools. Workshop topics include General Studies school-based curriculum development and coding education, etc.
- To assist the Participating Schools in incorporating STEM education elements in lessons through collaborative lesson preparation, lesson observation and lesson evaluation

5. Modes of Support

- To assist the Participating Schools in setting the development direction of the General Studies school-based curriculum and the implementation plan of the support activities
- To offer teacher training and workshops to the Participating Schools based on their needs to develop STEM education
- To conduct collaborative lesson preparation, lesson observation and lesson evaluation
- To collate the project deliverables from the Participating Schools for wider dissemination

6. Expectations on Participating Schools

- Participating Schools assign one teacher-in-charge to liaise with the Coordinating School and the related School Development Officer
- Representatives of the Participating Schools attend at least two 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 teachers attend the teacher development workshop(s) and review meetings arranged by the Network Co-ordinating School held in the school year, as well as arranging four Collaborative Lesson Preparation meetings and two open classroom activities with the Network Co-ordinating School on related topics
- 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