

Project Title:

How to integrate STEM education in School-based curriculum of General Studies

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, teaching materials and research reports
- Participating Schools observe strictly their legal obligations and, in all cases, comply with the Copyright Ordinance in developing school-based learning and teaching materials