

Project Title:

Promoting STEM Education through Developing Cross-curricular Learning Activities according to the Curriculum

1. Support Service Co-ordinator

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

2. Network Co-ordinating School

Maryknoll Fathers' School

3. Objectives

The project aims to enhance teachers' capacity:

- in designing and implementing cross-curricular activities on STEM education so as to strengthen the coherence and collaboration among teachers of the Science, Technology and Mathematics Education KLAs to promote the development of STEM education
- in consolidating students' subject knowledge through activities and unleashing their potential in innovation
- in developing the ability of students to integrate and apply their knowledge and skills across different subject disciplines for problem solving, as well as cultivating their interests in subjects related to STEM education

4. Foci of Support

- To develop diversified cross-curricular learning activities related to STEM education with the Participating Schools based on the interests and needs of their students
- To share how to strengthen students' ability to integrate and apply knowledge and skills of different disciplines so as to unleash their potential in innovation, e.g. leading students to take part in local, national and international science/technology competitions

5. Modes of Support

- To develop diversified cross-curricular learning activities related to STEM education with the Participating Schools based on the interests and needs of their students
- To share how to strengthen students' ability to integrate and apply knowledge and skills of different disciplines so as to unleash their potential in innovation, e.g. leading students to take part in local, national and international science/technology competitions

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 Schools form a teacher collaboration team with teachers of Mathematics, Science and Technology Education KLAs and one of the team members should be a panel head responsible for liaising with the

Network Co-ordinating School

- Target participants of the cross-curricular activities are S1-3 students
- 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