

**Name of Quality Education Fund Thematic Network (QTN)**  
Implementing ‘Computational Thinking’ and ‘STEM Education’ in KS2  
by Two Approaches

**1. QTN Co-ordinator**

Fung Kai Liu Yun Sum Memorial School

**2. Address of QTN Co-ordinator**

Wah Ming Estate, Fanling, New Territories

**3. Beneficiaries**

4 Primary schools

**4. Objective(s)**

This QTN aims at :

- Promoting STEM education in Key Stage 2;
- Promoting computational thinking in Key Stage 2;
- Enhancing teachers’ ability to cope with computational thinking and information technology teaching techniques; and
- Building a learning community in order to promote a cross-school professional exchange culture.

**5. Foci of Support**

- Curriculum :
  - Mathematics Education Key Learning Area – Mathematics Curriculum Guide (P1-P6) (2000);
  - Supplement to Mathematics Education Key Learning Area Curriculum Guide :
    - ✧ Learning Content of Primary Mathematics (2017);
- Classroom teaching :
  - Encourage adoption of different teaching methods to provide students with adequate opportunities to learn mathematical contents and apply knowledge.
- Learning tasks and materials :
  - Help teachers design school-based learning tasks and related materials catering students’ learning diversity.

**6. Mode of Support**

- Theme-based activities for teaching professional development such as workshops and collaborative lesson planning will be conducted.
- Leading core schools to develop school-based curriculum. The following key experiences will also be shared :
  - Analysing students’ learning needs;
  - Planning learning targets;

- Deciding teaching strategies;
- Designing learning tasks;
- Conducting lesson observations; and
- Conducting lesson study;
- Facilitate participating schools teachers to carry out cross-school exchange in order to foster professional development of teachers.

**7. Points to be noted by core schools**

To make the best use of the support services, each core school is required to:

- Design at least two learning units implementing computational thinking or/and STEM education in Mathematics in Key Stage 2, including teaching materials and relevant activities planning; and
- Design one school-based learning unit implementing computational thinking or/and STEM education in mathematics in Key Stage 1, which would be incorporated into the new Mathematics curriculum from September 2019 onwards.

**8. Enquiry**

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