

**Title of School-based Support Service (2025/26):
Quality Education Fund Thematic Network (QTN) –
Promotion of STEAM Education by Infusing Mathematical Modelling into
Secondary Mathematics**

1. Objectives

The support service aims to:

- enhance curriculum leadership and professional level of the teachers of participating schools by adopting train-the-trainer approach with a focus on nurturing curriculum leaders
- assist participating schools in constructing a mathematics curriculum to promote school-based STEAM education and activities
- let students of participating schools learn how to apply mathematical modelling in solving real-life problems
- nurture the professional development of mathematics teachers to guide students to understand, learn and use mathematical modelling to solve problems

2. Foci of Support

- Assist participating schools in establishing school-based mathematics curricula and activities
- Optimise the vertical and horizontal development of STEAM learning and teaching through mathematical modelling
- Let teachers of participating schools understand the topics related to mathematical modeling, the key learning and teaching foci and our experience in organising relevant classroom activities through talks and workshops
- Organise lesson planning and observation for broadening the horizon of the teachers of participating schools in mathematical modelling learning and teaching activities so as to optimise/construct their school-based curricula

3. Modes of Support

- QTN coordinator will support and collaborate with teachers of participating schools, details are as follows:

On-site collaboration and Networking Activities	<p>At least 17 times of on-site support and networking activities</p> <ul style="list-style-type: none"> • Conduct in-depth analysis of school needs, lesson study such as curriculum planning, collaborative lesson planning, lesson observation and post-lesson discussion to enhance teacher professionalism through close exchange • The core teaching team participates in cross-school professional development activities to share and promote effective practices and resources with a view to facilitating professional exchange among schools • Organise professional development activities such as workshops and lesson demonstration • Develop school-based mathematics curriculum, support participating schools to carry out at least one
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	<p>curriculum development task in mathematics</p> <ul style="list-style-type: none"> • Arrange networking meetings to share successful experiences and the challenges faced • Promote interschool exchange through learning community activities and territory-wide dissemination seminar
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4. Points to note

- The duration of the support services normally lasts for one year
- Each participating school should nominate 1-2 teachers to participate actively in the support services
- At least one representative should attend each QTN activity
- To fully utilise the support services, participating schools should:
 - nominate panel head / deputy panel head to be responsible for coordinating the QTN activities.
 - arrange regular timeslots for teachers to collaborate and exchange, e.g. periods for collaborative lesson planning and lesson observation
 - assign teachers to attend at least 1 training workshop and 2 networking activities.
 - assign at least one form of students to participate in two activities related to mathematical modelling
 - arrange teachers to participate in two Executive Committee (EC) meetings and a territory-wide dissemination seminar to share their successful experience and the learning and teaching materials developed under collaboration
- Allow support officers to collect materials including video clips and photographs of learning activities, teachers' reflection and student work during the support period for professional discussion
- Encourage the core teaching team to disseminate successful experience, within and across schools, in school curriculum development and the learning and teaching resources co-developed (The copyright of these materials will be owned by Quality Education Fund. Quality Education Fund also reserves the right to compile and modify these materials for educational promotion purposes)
- Participating schools should comply with relevant laws, such as compliance with the Copyright Ordinance in developing school-based learning and teaching materials

5. Enquiries

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