

**Title of School-based Support Service (2025/26):
Quality Education Fund Thematic Networks (QTN) —
Practising STEAM education in Mathematics to improve students’
abilities to solve real-life problems cum STEAM Education Resource
Hub**

1. Objectives

This 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
- enhance students’ abilities to solve real-life problems through hands-on activities, by promoting STEAM education in the modules of Mathematics in response to the school context and the needs of students
- strengthen the pedagogical skills of teachers in the application of computational thinking and information technology
- establish a professional learning community and foster a culture of inter-school professional exchange, contributing to both the society and teaching profession
- provide teachers, parents and students with workshops and access to STEAM resources and equipment in the STEAM Education Resource Hub

2. Foci of Support

- To promote STEAM education in the modules of Mathematics according to the needs of participating schools and their students
- To develop a primary school-based curriculum of STEAM education to promote whole-person development of students
- To enhance the pedagogical skills of teachers in computational thinking and information technology
- To establish a professional learning community to promote inter-school professional exchange
- To cultivate students’ positive values and attitudes, encouraging them to enjoy the learning process and identify the most effective learning methods through trial-and-error
- To develop students’ STEAM competencies so as to apply their STEAM knowledge to solve real-life problems, and prepare them for future academic and career paths

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 16 times of on-site support and networking activities</p> <ul style="list-style-type: none"> • Conduct in-depth analysis of the needs of the participating schools and organise theme-based professional development activities for teachers, including workshops, curriculum planning meetings, collaborative lesson planning, lesson observations and post-lesson discussion to enhance teacher professionalism through close exchange • The core teaching teams participate in cross-school professional development activities to share and promote effective practices and resources with a view to facilitating professional exchange among schools • Lead the participating schools to design school-based curricula • Establish a learning community network and hold professional discussion and exchange regularly • Organise theme-based courses for teachers on the use of equipment and tools in STEAM education • Organise territory-wide disseminating seminars for teachers of participating schools to share the project outcomes and accomplishments
STEAM Education Resource Hub	<ul style="list-style-type: none"> • Open the STEAM Education Resource Hub regularly to provide equipment and tools for the use of all teachers and students in the community • Conduct regular teacher development activities • Organise varied learning activities for primary students regularly • Organise parent-child STEAM workshops for parents and students to enjoy the experience of coding and making STEAM-related products together

4. Points to note

- The duration of the support services normally lasts for one year
- Active engagement of participating schools throughout the support services is expected
- At least one representative should attend each QTN activity
- To fully utilise the support services, participating schools should:
 - nominate a panel head to be responsible for the coordination of QTN activities
 - arrange regular timeslots for teachers to collaborate and exchange, e.g. periods for collaborative lesson planning and observation
 - arrange teachers to participate in two Executive Committee (EC) meetings and a territory-wide dissemination seminar to share their successful experiences in school curriculum development 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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