

Title of School-based Support Service (2026/27):
Quality Education Fund Thematic Network projects (QTN projects) –
Science in ACTION : Facilitating STEAM Education in Primary/Secondary
Schools cum STEAM Education Resources Hub

1. Objectives

The support service aims to:

- enhance curriculum leadership and professional level of teaching team for participating schools through train-the-trainer approach and with a focus on nurturing curriculum leaders
- promote Artificial Intelligence (AI), STEAM and science education to primary and secondary schools and foster interdisciplinary learning by supporting school-based curriculum design that integrates scientific knowledge with AI applications
- Enhance teachers' proficiency in using science kits, microcontroller boards and AI platforms in teaching, and designing hands-on science activities through training, collaborative lesson planning and peer observation
- co-develop a STEAM activity exchange platform centred on science and technology curricula, enabling students to conduct cross-regional scientific experiments and collaborative data collection

2. Foci of Support

- To invite participating primary and secondary schools to attend STEAM or AI workshops, such as microcontroller science workshops, at our school, allowing participants to understand the operating principles of microcontrollers and sensors and to experience related experimental procedures
- To organise curriculum planning meetings and to formulate teaching schemes based on the course syllabus, ensuring thorough preparation for classroom instruction
- To conduct joint-school lesson observations and professional exchange activities to foster teachers' professional growth and the sharing of teaching experience
- To hold reflection and sharing sessions where participating schools, upon completing a teaching unit, present their school-based curriculum design approaches and exchange views on the challenges faced and insights gained during implementation

3. Modes of Support

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

<p>On-site collaboration and networking activities</p>	<p>At least 18 times of on-site support and networking activities</p> <ul style="list-style-type: none"> • The core teaching team participates in cross-school professional development activities, sharing and promoting effective practices and resources to facilitate professional exchanges among schools • Conduct in-depth analysis of schools' needs and carry out a range of lesson-study activities – including curriculum planning, collaborative lesson planning, on-site workshops, lesson observation and post-lesson discussions to enhance teacher professionalism through close exchange • Organise professional development activities for teachers, such as demonstration lessons, corporate visits and pedagogical exchange sessions • Develop a school-based STEAM curriculum and compile a complete set of teaching resources for one unit (e.g., lesson plans and learning and teaching materials) for sharing and dissemination • Coordinate learning community activities and a year-end territory-wide dissemination seminar for interschool exchange
<p>STEAM Education Resource Hub</p>	<ul style="list-style-type: none"> • Sustain the development of the STEAM Education Resource Hub by providing STEAM and AI innovation education activities and workshops for primary and secondary teachers, students, and parents in Hong Kong • Open the STEAM special room and related facilities at the Hub, granting priority access to schools within the district on weekdays and Saturday mornings • Invite all primary and secondary teachers in Hong Kong to participate in workshops, with a view to providing STEAM and AI-related support to non-participating schools and promoting the sharing of educational resources

4. Points to note

- The duration of the support services normally lasts for one year
- Participating schools are expected to actively participate in the support services
- At least one representative should attend each QTN project activity
- To fully utilise the support services, participating schools should:
 - nominate panel heads to coordinate QTN project activities
 - schedule fixed collaborative timeslots for teachers to facilitate pedagogical discussions, such as collaborative lesson planning

- periods and peer observation
- arrange teachers to participate in one Preparation Meeting, 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 experiences in school curriculum development and the learning and teaching resources co-developed within and across schools (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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