

Title of School-based Support Service (On-site Support) (2025/26):

Quality Education Fund Thematic Networks – Designated Themes: Self-directed Learning as a Strategy to Promote STEAM Education in the Era of Artificial Intelligence

1. Objectives

The support service aims to:

- Enhance curriculum leadership and professional level of teacher team in participating schools through train-the-trainer approach and with a focus on the curriculum leadership
- Support participating schools in strategic planning and implementation of STEAM-related lessons and curriculum (includes Primary Science curriculum) using a whole-school approach
- Strengthen curriculum leadership, foster collaboration across STEAM-related KLAs/subjects such as Mathematics Education, Science Education / General Studies , Visual Arts and Technology Education
- Enhance teachers’ professional capacity in adopting self-directed learning (SDL) as a strategy to promote STEAM education
- Strengthen students’ ability to integrate and apply knowledge and skills across different subject disciplines to unleash their innovation, and to help them develop positive values
- Provide professional views and technical solutions in field of STEAM including electronics and robotics

2. Foci of Support

- To support participating schools in designing learning and teaching strategies related to STEAM education
- To support the development of learning activities relating to STEAM education that integrate knowledge, skills and attitudes so to help students develop positive values
- To support the development of school-based resources and promote activities for the successful implementation of STEAM education and SDL
- To help teachers understand the objectives and principles of STEAM education and SDL through teacher professional development programmes
- To provide consultancy service to participating schools to create the environment and space that is suitable for the implementation of STEAM education, such as setting up a STEAM Lab or cross-science subject laboratories for STEAM education and SDL
- To focus on, but not limited to, the following themes: robotics and sensors, 3D and VR technologies, coding and computational thinking, science project learning, artificial intelligence, smart city, e-learning, Aerospace Science and technology, AI for Science

3. Support Activities

- Support officers collaborate with the core teaching team through regular meetings to develop the school curriculum and conduct collaborative lesson planning, lesson observation and post-lesson discussion
- The core teaching team participates in cross-school professional development activities, sharing and promoting effective practices and resources to facilitate professional exchanges among schools
- Organise teacher’s professional development workshop at the University of Hong

Kong to equip participating schools on knowledge pertaining to STEAM education and SDL

- Arrange project-based learning competition to nurture students' interest in STEAM education
- Participating schools attend two Executive Committee (EC) meetings and an annual dissemination seminar to share the good practices generated and effective ways to cope with challenges encountered

4. Points to note

- The support service normally lasts for one year
- To effectively utilise the support service, participating schools should:
 - appoint a teacher to lead the core teaching team's participation in this professional support service; to be responsible for liaising with the relevant support officer and making specific arrangements for the support service
 - organise regular meetings to ensure teachers are fully engaged in activities including discussions on curriculum development, collaborative lesson planning, lesson observation and post-lesson discussion as well as reviewing student learning outcomes, thereby strengthening collaboration and communication among teachers. Support officers will participate in various sessions and provide feedback to facilitate the professional development of teachers
 - 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 jointly 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