

Quality Education Fund Thematic Network (QTN)

Creative STEM Education Driven by Scientific Investigation

1. Support Service Co-ordinator

Christian Alliance S W Chan Memorial College

2. Areas of Collaboration

Facilitates and promotes curriculum development and learning and teaching of STEM education in secondary schools and primary schools

3. Foci of Development

QTN co-ordinator will support teachers of participating schools to promote and develop STEM education at schools. The foci of development are as follows:

- To foster professional development of teachers from secondary schools and primary schools by applying scientific investigation in STEM education in classroom teaching
- To incorporate scientific investigation with computational thinking in lessons, interested topics including smart city, IOT, biological and medical technology, in order to help students master interdisciplinary knowledge and skills so as to nurture their innovative and entrepreneurial spirit ultimately
- To treasure experience and process through inquiring reality and acquire knowledge
- To nurture curiosity, critical thinking and open-mindedness, to value evidences and awareness of biological ecosystem and habitat, to recognise the environmental problems faced nowadays and to improve livelihood of future generation

4. Modes of Exchange and Collaboration

On-site support and network activities: QTN co-ordinator will support and collaborate with teachers of participating schools regularly for one school year through the followings:

- teacher trainings and workshops
- lesson co-planning
- lesson observation and evaluation
- establishing scientific investigation-based curriculum for STEM education
- evaluation meeting

5. Expectations on Participating Schools

To make good use of the support services, participating schools are expected to:

- participate in activity once a month
- consolidate 3-5 lesson plans with teaching materials as printed exemplar and publish on website as a reference for other schools

6. Points to Note

- The support services normally last for one year
- Active engagement of participating schools throughout the support services is expected
- All participating schools should appoint panel heads / deputy panel heads to be responsible for the liaison of QTN activities
- At least one representative should attend each QTN activity
- Participating schools are required to attend two Executive Committee (EC) meetings and an annual dissemination seminar to share the good practices derived and challenges faced

7. Enquiries

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