

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

Curriculum development and learning and teaching of STEM education in secondary 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 by applying scientific investigation in STEM education in classroom teaching
- To incorporate scientific investigation with computational thinking in lessons, 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 participating schools regularly for one school year to collaborate with participating teachers in:

- teacher trainings and workshops
- lesson co-planning
- lesson observations and evaluations
- establishing scientific investigation-based STEM curriculum
- 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 PSM(CD) / 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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