

Collaborative Research & Development (“Seed”) Project for 2021/22

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| Section | Mathematics Education | |
| Title of the Project | Promoting STEM education in primary Mathematics to foster students’ ability to integrate and apply knowledge and skills | |
| Class Level (Please check and ✓ the appropriate box.) | <input type="checkbox"/> Kindergarten <input type="checkbox"/> Secondary Please specify levels: _____ | <input checked="" type="checkbox"/> Primary <input type="checkbox"/> Primary and Secondary _____ |
| Brief Description (e.g. Objectives, expected outcomes) | The project aims at promoting STEM education in primary Mathematics to foster students’ ability to integrate and apply knowledge and skills. The objectives and expected outcomes of the project are: <ul style="list-style-type: none"> • to promote STEM education with the use of the lesson time allocated to the Further Learning Unit or Spare Periods in primary Mathematics curriculum; • to foster students’ ability to integrate and apply knowledge and skills through various topics in primary Mathematics; • to enhance students’ ability in applying mathematics to solve problems of different contexts; • to share the experiences of the participating schools through the professional development programmes; and • to develop examples related to STEM education. | |
| Key Emphases (Please check and ✓ the appropriate box(es). You can choose more than one box.) | Dimension | <input checked="" type="checkbox"/> Curriculum planning <input checked="" type="checkbox"/> Learning and Teaching <input checked="" type="checkbox"/> Assessment |
| | Focus | <input type="checkbox"/> Values Education (including MCE, BLE& NSE) <input type="checkbox"/> Chinese history & Chinese culture <input type="checkbox"/> Reading / Language across the Curriculum <input checked="" type="checkbox"/> STEM & IT Education <input type="checkbox"/> Entrepreneurial Spirit <input type="checkbox"/> Life-wide Learning <input type="checkbox"/> Gifted Education <input type="checkbox"/> L&T of Chinese as a second language <input type="checkbox"/> Catering for Learner Diversity <input type="checkbox"/> Self-directed Learning <input type="checkbox"/> Whole-person Development <input type="checkbox"/> Others (please specify *) _____ |
| Deliverables (Please check and ✓ the appropriate box(es). You can choose more than one box.) | <input type="checkbox"/> Exemplars to be used for curriculum documents <input checked="" type="checkbox"/> Learning & teaching packages, self-learning packages for teachers <input checked="" type="checkbox"/> Workshops and seminars <input type="checkbox"/> Others (please specify) : _____ | |
| Duration and Nature of the Project | From 09 mm 21 yy to 08 mm 22 yy <input type="checkbox"/> New <input checked="" type="checkbox"/> Ongoing (started from 09 mm 19 yy) | |

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| Name of Advisor(s) / Consultant(s) to be invited | N.A. | |
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