Collaborative Research & Development ("Seed") Project for 2022/23

Section	Mathematics Education Section		
Title of the Project (Project Code)	Promotion of STEM Education by infusing Mathematical Modelling into Secondary Mathematics (MA0622)		
Class Level (Please check and √ the appropriate box.)	☐ Kindergarten ☐ Primary ☑ Secondary ☐ Primary and Secondary Please specify levels: S1 — S6		
Brief Description (e.g. Objectives, expected outcomes)	The project aims at exploring and developing effective strategies for the learning and teaching of mathematical modelling through various topics of secondary Mathematics to promote STEM education. The project investigates how concepts and techniques in mathematical modelling could be infused into mathematics topics to enhance students' ability to integrate and apply mathematical knowledge and skills to real-life scenarios.		
	 The objectives and expected outcomes of the project are: to explore and develop effective strategies for the learning and teaching of mathematical modelling through various topics in secondary Mathematics to promote STEM education by infusing activities of mathematical modelling with the use of the lesson time allocated to the Further Learning Unit in secondary Mathematics curriculum to try out and refine various learning and teaching activities to build up and support the development of resources in STEM education to share the experiences of the participating schools and disseminate the project results through the professional development programmes for teachers 		
Key Emphases	Dimension ☐ Curriculum planning ☑ Learning and Teaching ☐ Assessment		
(Please check and √ the appropriate box(es). You can choose more than one box.)	Values Education (including MCE, NSE & BLE) Chinese history & Chinese culture Reading / Language across the Curriculum STEM & IT Education Entrepreneurial Spirit Life-wide Learning Gifted Education L&T of Chinese as a second language Catering for Learner Diversity Self-directed Learning Whole-person Development Others (please specify *)		
Deliverables (Please check and √ the appropriate box(es). You can choose more than one box.)	 □ Exemplars to be used for curriculum documents □ Learning & teaching packages, self-learning packages for teachers □ Workshops and seminars □ Others (please specify) : 		
Duration and Nature of the Project	From 09 mm 22 yy to 08 mm 23 yy □ New ✓ Ongoing (started from 09 mm 19 yy)		

Name of Advisor(s) / Consultant(s) to be invited		
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[#] Please use a separate sheet for each project.