Collaborative Research & Development ("Seed") Project for 2024/25

Section	Mathematics Education Section						
Title of the Project	Promotion of STEAM Education by infusing Mathematical Modelling into Secondary Mathematics						
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 STEAM education. The project investigates how concepts and techniques of 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 STEAM education by infusing activities of mathematical modelling through various topics in secondary Mathematical modelling through making good 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 STEAM education to promote experiences sharing among the participating schools and disseminate the project results through 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 moral and civic education, national security education & Basic Law education) Chinese history & Chinese culture Reading / Language across the Curriculum STEAM & 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	Exemplars to be used for curriculum documents						
(Please check and $$ the appropriate box(es). You can choose more than	 ✓ Learning & teaching packages, self-learning packages for teachers 						
	\checkmark Workshops and seminars						
one box.)	 Others (please specify) : 						
Duration and	From 09 mm 24 yy to 08 mm 25 yy						

Nature of the Project	□ New	☑ Ongoing	(started from	09	mm	19	_ yy)
Name of Advisor(s) / Consultant(s) to be invited	N.A.						
Officer i/c	Name: LEE Kin-s	sum	Post:	Post: CDO(Ma)4			
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Please use a separate sheet for each project.