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

Section	Mathematics Education Section			
Title of the Project	The use of higher-order thinking problems in the learning and teaching of Secondary			
(Project Code)	Mathematics (MA1022)			
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 the learning and teaching strategies for using higher-order thinking problems in Secondary Mathematics. Students' diverse abilities, interests, and needs will be taken into consideration when designing the activities and resources. The objectives of the project are: • to develop higher-order thinking problems and related resources • to explore and develop the learning and teaching strategies for using higher-order thinking problems to enhance students' critical thinking and problem solving skills, and to develop their ability in integrating and applying knowledge and skills of Mathematics • to make good use of existing resources (including e-resources) to promote students' higher-order thinking skills			
	 to try out and refine various learning and teaching activities to share the experiences of the participating schools and disseminate evidence-based practices through PDPs 			
Key Emphases (Please check and √ the appropriate box(es). You can choose more than one box.)	Dimension	☑ Curriculum planning ☑ Learning and Teaching ☐ Assessment		
	Focus	□ 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 ✓Ongoing (started from 09 mm 21 yy)		

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