

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

Section	Mathematics Education Section	
Title of the Project	The use of higher-order thinking problems in the learning and teaching of Secondary Mathematics	
Class Level (Please check and \surd the appropriate box.)	<input type="checkbox"/> Kindergarten <input type="checkbox"/> Primary <input checked="" type="checkbox"/> Secondary <input type="checkbox"/> Primary and Secondary Please specify levels: <u> S1 — S6 </u>	
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: <ul style="list-style-type: none"> • 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 <i>e</i>-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 \surd 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 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 checked="" 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 \surd 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 <u> 09 </u> mm <u> 21 </u> yy to <u> 08 </u> mm <u> 22 </u> yy <input checked="" type="checkbox"/> New <input type="checkbox"/> Ongoing (started from _____ mm _____ yy)	
Name of Advisor(s)	Nil.	

/ Consultant(s) to be invited		
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Please use a separate sheet for each project.