

## Collaborative Research & Development (“Seed”) Project for 2019/20

<b>Section</b>	Liberal Studies
<b>Title of the Project</b>	Infusing STEM Education Elements into Senior Secondary Liberal Studies – the Use of Scientific Data
<b>Class Level</b> (Please check and ✓ 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>    S4 - 6    </u>
<b>Brief Description</b> (e.g. Objectives, expected outcomes)	Senior Secondary Liberal Studies aims at integrating and applying foundational knowledge of students through enquiring contemporary social issues. Through infusing and applying STEM education elements, especially the use of scientific data, in the enquiry of socio-scientific issues, student could conduct in-depth analysis of the issues, and acquire relevant concepts and higher-order thinking skills. The aims of this project are to: <ul style="list-style-type: none"> <li>● enhance teachers’ awareness of STEM education elements, especially the use of scientific data, in the learning and teaching of Liberal Studies,</li> <li>● develop teachers’ capacity in designing and implementing learning and teaching strategies to infuse STEM education elements into Liberal Studies,</li> <li>● conduct trial lessons to generate authentic learning and teaching exemplars, so as to demonstrate how STEM education elements could be infused into Liberal Studies, and</li> <li>● generate authentic experiences and examples to be used in teacher training courses and development of professional learning community.</li> </ul>
<b>Key Emphases</b> (Please check and ✓ the appropriate box(es). You can choose more than one box.)	<input checked="" type="checkbox"/> Curriculum planning, learning, teaching and assessment strategies <input checked="" type="checkbox"/> Development of generic skills in an integrative approach through learning activities <input type="checkbox"/> Four key tasks (project learning, reading to learn, moral and civic education, and information technology for interactive learning) <input checked="" type="checkbox"/> Major Renewed Emphases (strengthening values education (including moral and civic education, and Basic Law education), reinforcing the learning of Chinese history and Chinese culture, extending “Reading to Learn” to “Language across the Curriculum”, promoting STEM education and ITE, fostering an entrepreneurial spirit, diversifying life-wide learning experiences (including those for VPET), stepping up gifted education, enhancing the learning and teaching of Chinese as a second language) <input type="checkbox"/> Others, please specify* : _____ _____
<b>Deliverables</b> (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) : _____ _____

<b>Duration and Nature of the Project</b>	<b>From</b> <u>Sept</u> <b>mm</b> <u>2019</u> <b>yy</b> <b>to</b> <u>Aug</u> <b>mm</b> <u>2020</u> <b>yy</b> <input type="checkbox"/> <b>New</b> <input checked="" type="checkbox"/> <b>Ongoing</b> (started from <u>Sept</u> <b>mm</b> <u>2016</u> <b>yy</b> )	
<b>Name of Advisor(s) / Consultant(s) to be invited</b>	Not Applicable	
<b>Officer i/c</b>	<b>Name:</b> Dr CHAN Wah-lun	<b>Post:</b> CDO(LS)1
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# Please use a separate sheet for each project.

\* e.g. catering for learner diversity, experiential learning, self-directed learning, whole-person development, interdisciplinary learning, etc.