

Part B Project Summary

Project Title: Enriching Science Learning in Primary 3-5: Self-directed Virtual Learning, "A Little Scientist Exploration Programme" and Professional School Support Services	Project Number 2013/0154
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Name of Organization: **Hong Kong Association for Science and Mathematics Education Limited**

(1) Goals:

In view of the challenges to science learning in the GS Curriculum (2011) and the new initiatives in TIMSS 2015 and our past TIMSS performance, the project aims to:

1. develop science enrichment framework and materials for enhancing students' self-learning in Primary 3-5;
2. enhance in-service teachers' competence in teaching science in Primary 3-5;
3. promote students' and teachers' understanding of science practices; and
4. extend students' science learning beyond the classroom.

Objectives:

- a. to develop science enrichment framework and materials for learning and teaching in the context of Hong Kong General Studies Curriculum in Primary 3-5;
- b. to develop a web-based platform for self-directed science learning;
- c. to provide teacher training courses on how to teach science component of GS curriculum in an innovative way and include science practices in their teaching;
- d. to develop a range of science activities that primary schools can conduct in the schools to promote students' high and active participation in the lessons; and
- e. to organize a territory-wide science competition for primary schools.

(2) Targets: General Studies teachers and students in Primary 3-5

Expected number of beneficiaries: primary schools: **125**, teachers: **500**, students: **37,500**

(3) Implementation Plan: We plan to achieve the goal and objectives stipulated in this proposal through 3 phases over a period of **24 months**.

Phase 1: Planning phase (12/2014 –5/2015)

Phase 2: Implementation phase (3/2015– 4/2016)

Phase 3: Evaluation and dissemination phase (5/2016- 11/2016)

(4) Products: The expected outcomes and deliverables are as follows:

- 12 sets of curriculum resources for the learning and teaching of science practice skills in science curriculum (Primary 3-5);
- A science enrichment framework;
- A web-based enrichment platform for students from 125 primary schools to facilitate their systematic science enrichment learning;
- A territory-wide science competition for primary schools;
- Totally, 15 teacher workshops on teaching science practice skills, innovative science activities in the classrooms and integration of science enrichment elements into curriculum for Primary 3-5;
- At least one seminar to disseminate the knowledge and materials generated from this project.

(5) Budget:

Item:	Amount (HK\$)
1. Staff cost:	\$1,322,400
2. Equipment:	\$26,500
3. General expenses:	\$157,000
4. Services:	\$1,022,350
5. Contingency:	\$36,176
TOTAL:	\$2,564,426

(6) Evaluation:

A comprehensive and evidence-based evaluation from various perspectives will be employed in the following five components: curriculum resources, web-based platform, training workshops, school implementation and students' activities.