

Part B Project Summary

Project Title:

Developing Students' Science Process Skills with Assessment for Learning(AfL) Strategies: Bridging the Gap between Junior Science Curriculum and the New Senior Secondary (NSS) Curriculum

Project Number

2011/0269

Name of Organization: Hong Kong Association for Science and Mathematics Education

(1) Goals and objectives:

The goal is to develop students' science process skills so as to bridge the gap between junior science curriculum and the NSS curriculum. We will:

- develop curriculum frameworks and materials for teaching and assessing science process skills in the context of Hong Kong science curriculum (Secondary 1-3);
- develop a range of school-based curriculum plans with AfL strategies for developing students' science process skills; and
- provide teacher training courses on how to teach and assess science process skills and teaching science as inquiry.

(2) Targets:

Direct targets and expected number of beneficiaries:

- Collaborating schools: 5 secondary schools developing school-based curriculum plans
- School teachers: about 300 science teachers participating in the training courses
- Students: around 1,500 students from the collaborating schools

(3) Implementation Plan:

This project is designed for a duration of 24 months and will adopt an interactive approach embedded within three phases.

- Phase 1: Planning phase (January 2013 to April 2013)
- Phase 2: Implementation phase (February 2013 to September 2014)
 - development of curriculum materials
 - planning school-based curriculum with AfL strategies
 - teacher training workshops
- Phase 3: Evaluation and dissemination phase (June 2014 to December 2014)

(4) Products:

The expected outcomes and deliverables are as follows:

- 30 sets of curriculum resources for the learning and teaching of science process skills in science curriculum (Secondary 1-3);
- 5 school-based curriculum plans for enhancing students' process skills with AfL strategies;
- 20 teacher workshops on how to teach and implement science process skills in schools; and
- 1 seminar to disseminate the knowledge and materials generated from this project.

(5) Budget:

Staff Cost	Equipment	General Expenses	Services	Contingency	Total
\$403,200	\$28,000	\$145,000	\$1,160,000	\$39,990	1,776,190

(6) Evaluation:

An evidence-based evaluation with the following four components: Curriculum Plans, Curriculum Resources, Training Workshops and School Implementation.