
THE CONTRIBUTION OF SCIENCE PROCESS SKILLS TO BUILD MULTIPLE INTELLIGENCE

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Abstract

Science process skills are instrumental in the learning of science (Othman, 2013). In Malaysia, Science Curriculum Standards state that the practice of these skills allows learners to act and see the world as young scientists (Malaysia Ministry of Education, 2012). Multiple intelligences are also necessary for teaching science (Samsudin et al, 2014). Unfortunately, the present education system is largely dependent on writing assignment and examination (Sarrazine, 2005). I have experienced teachers tell me they "just don't have time for it." The conventional method of teaching mostly focuses on completion of course curriculum and in the process students often become passive listeners (Corrienna-Abd-Talib, 2014).

If you are looking for creative, hands-on, minds-on activities to teach young learners science process skills, try using inquiry-based learning that integrates multiple intelligences. When they planning and conducting an investigation, your students will more easily grasp science concept involves. Besides, science activities associated with the use of certain intelligence will allow successful scientific experiments (Samsudin et al, 2014).

Activities that foster and encourage the use of science process skills integrated with multiple intelligence elements, such as those that involve the use of inquiry-based learning, provide learners with the skills they need to understand how scientists work and to view science from the perspective of amateur scientists (Budprom et al, 2010).

In this keynote paper, I outlined the important role science process skills can play in learning science. Drawing upon research and professional development work with teachers and students in schools and higher institution in Malaysia, I argue that science process skills have a positive impact in the learning of science. Therefore, teaching and learning that integrates science process skills will enhance elements of multiple intelligences to be developed and nurtured amongst students. The presentation will attempt to elucidate some ideas of activities for a meaningful learning environment.

Keywords : science process skills, multiple intelligence, teaching and learning