

The Study Number in The List	:	The Fifth
The Study Title	:	A Proposed Program for Science, Technology and Mathematics Education in Kindergarten Stage according with Global Standards
Publisher	:	Journal of Science Education , Egyptian Society for Science Education
Vol. , No.	:	Vol.(18) , No. (3)
Publishing Date	:	May 2015
Single or Shared	:	Shared With Dr.Hamdan M.A.Ismail

Abstract:

The present study aimed to establish a list of science, technology, and mathematics education standards in kindergarten according with global standards, and to provide a proposed program for science, technology, and mathematics education in kindergarten. The study sample consisted of (46) members of expert and specialists in kindergarten education in the 2nd semester, academic year 2013/2014. The study used descriptive analytical approach to prepare conceptual framework and instrument, and futurist approach to design a proposed program. The study used a questionnaire – which were developed by the researchers– to investigate opinion poll a study sample about standards of science, technology and mathematics education standards in kindergarten according with global standards. Among the most important findings revealed that to identify a list of science, technology and mathematics education standards in kindergarten included (2) main fields; namely: science, technology, and mathematics,

(13) domains, (18) standards, and (122) indicators, rates ranged from agreement on the importance of science and technology education standards between (68.26 to 93.48%), which referred to "high" percentage of agreement on the importance of these standards and indicators, rates ranged from agreement on the importance of mathematics education standards between (65.65 to 90.00%), which referred to "high" percentage of agreement on the importance of these standards and indicators, except (109 and 119) indicators which were percentage agreement, "medium". The study also a proposed program for science, technology and mathematics education standards in kindergarten according with global standards, that included the vision, mission, values, general goals, content, standards, basic concepts and skills, instruction and learning strategies, learning and instruction activities, multiple sources of learning, teaching and learning environment, and authentic evaluation methods. The study recommended the need to design experiences for science, technology, and mathematics education in kindergarten, according to the global standards, the need to train teachers in kindergarten before and in the service, on the teaching strategies of science, technology, and mathematics experiences focused on scientific inquiry, using senses, employing logical, critical thinking, and curiosity.

Keywords: A proposed program, Science and technology, and mathematics education standards, Kindergarten, Global standards.

