

A PROPOSED UNIT IN THE LIGHT OF (STEM) APPROACH AND ITS EFFECT ON DEVELOPING ATTITUDES TOWARD (STEM) AND PROBLEM SOLVING SKILLS FOR PRIMARY STUDENTS

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ABSTRACT_ Internationally, There is a growing concern for developing (Science-Technology-Engineering-Mathematics) Approach to prepare students for a scientifically and technologically advanced society. The research aimed at studying the effect of a proposed unit on developing Attitudes toward (STEM) and Problem solving skills for primary students. The research prepared a proposal unit based on bases which are: (STEM) approach, Characteristics of primary students and the Needs of Egyptian society and This Age. Engineering Design process (STEM) was used in teaching a proposed unit ,The study took place on fifth –grade students. Results shows there are statistically significant differences between the means of scores of the students in the Attitudes toward (STEM) S cale as a whole and each dimension separately before and after the application of the proposed unit in favor of the post application. And there are statistically significant differences between the means of scores of the students in the Problem Solving Skills Test as a whole and each dimension separately before and after the application of the proposed unit in favor of the post application.

KEY WORD_ STEM Approach, Attitudes toward STEM, Problem solving skills, Engineering Design process- Primary students.