

A Suggested Program for Applying Scenario-based learning model in Teaching Mathematics for Enhancing Creative thinking skills and Attitude towards Mathematics learning of First Year General Secondary students.

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The research aimed at investigating the effect of using scenario. Based learning model For enhancing Creative thinking and attitude Towards mathematics learning of first year general secondary students The sample of the research consisted of (90) students divided into two groups ; one of them is an experimental (45) students and the other one a control group(45) students. In order to achieve the aims of the research, the researcher reformed and designed a unit in (analytic geometry) assigned in student book published (2016 / 2017) second term, in the light of applying the characteristics and principles of scenario- based learning model. The researcher also prepared two Tools: A Test for measuring Creative thinking skills, the other is a scale of the attitude towards mathematics. After verifying the validity and reliability of the Tools of research, experiment was conducted on the sample

Of the research after making sure the two groups are equal. After finishing the study of the unit and applying the tools of the research, the research showed the following results:

The students of the experimental those of the control group in each of the creative thinking skills Test and the scale of attitude towards mathematics learning as there were statistically .significant differences in favor of the experimental group in the post application of each Tool There is a strong direct correlation which is statistically significant between Creative thinking skills and attitude towards mathematics learning in the sample of the research (the experimental .(group

In the light of the findings of the research, the researcher recommends the following:

- 1-The possibility of developing. Creative thinking of students and the importance of including education scenarios in the educational curricula to benefit from this type of thinking in achieving academic distinction
- 2- The possibility of enhancing the student's ability to increase their different thinking styles in the academic side which develops their motivation and confidence and decreases their anxiety. This also develops positive attitude towards mathematics study and is reflected on
- 3- Emphasizing the importance of developing different thinking skills of students through conscious education practices to create productive generation with a high achievement, efficiency and mathematical talent
- 4- Developing mathematics Teachers preparation programs and continuing to train them and their vocational and academic progress. Also, developing and improving the Teachers' attitudes towards creativity and create people in order to provide creative Teachers which helps develop .creative abilities of students
- 5- Conducting Training programs and workshops for improving different thinking styles of students through focusing on providing the students with the skills and educational practices based on educational situations to increase their beliefs in their abilities in achieving progress and completing educational tasks successfully
- 6- Forming the academic courses into educational scenarios as possible as they are exciting and achieve positive participation of students which gives learning enjoyment as well as academic achievement

In the light of the findings of the research, the

:Researcher recommends conducting the following researches .

- 1- Conducting a similar study to apply scenario based learning model in other mathematical courses and in different educational stages
- 2- Studying the effect of using a suggested program in teaching mathematics on developing creative thinking and problem solving of special needs and learning disorders students
- 3 - Using a suggested program for Training student- teachers, mathematics section at faculties of education and investigating its effect on developing their creative thinking and their attitudes towards mathematics learning
- 4- Conducting evaluative studies for mathematics curricula in different educational stages in the light of developing creative thinking and solving mathematical problems

Key words: Program - scenario- based learning- creative- thinking skill- attitude.