

The Effect Of Combining The Strategies Of The Mantle Of The Expert And Playing Roles In The Development Of Skills To Solve The Mathematical Issue And Creative Thinking Among Seventh Graders In Ramallah.

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Abstract

This study aimed at investigating the effectiveness of the Mixed between two strategy's Mantle of the Expert and Role-plays in solving the Mathematical problem and creative thinking Skills among the seventh graders. The study conducted on a sample of seventh graders at Kober Secondary Boys School and Upper Kober Elementary Girls School. The study sample consisted of (100) graders split into two groups (experimental and control). The researcher also prepared a test of solving the mathematical equations, and adopting the Torrance test for creative thinking the verbal image "A" by examining the tests used in the Ristow study (1988), Edwards and Baldov (1987) study, and designing a teacher book for the (engineering and measurement) unit according to the integration between the strategies of the mantle of the expert and role playing.

This study adopted quasi-experimental design. It included two groups (experimental and controlled) in two branches (males and females) for each group. The controlled group was taught by using the traditional method whereas the experimental group by the integration between the strategies of the mantle of the expert and role playing. The data analyzed using (ANCOVA) test to measure the differences in solving the mathematical equations and the development of creative thinking between the control and experimental groups.

The results showed that there were statistically significant differences in the mean scores of the mathematical problem solving test due to the teaching method. There were no

statistically significant differences in the test scores for solving the mathematical problem due to gender. There were no statistically significant differences in the mean scores of the mathematical solution, Method and gender.

The results showed that there are statistically significant differences in the mean scores of the creative thinking test due to the way, gender and interaction between them.

Based on the results of the study, the researcher recommends the need to integrate the strategies between the mantles of the expert and play roles in the teaching of mathematics, and to conduct further studies on the impact of the merger between these two strategies in other variables and discussions.