Abstract

Title: The Effectiveness of the 4mat System in the Achievement and Creative Thinking of the Second Female Students at Secondary Schools in the English Subject. (Ph. D)
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The purpose of this study is to investigate the effectiveness of the 4mat System in the achievement and the creative thinking of the second grade students in secondary schools in Makkah. Eighty six female students from the second grade, the 23rd Secondary School in Makkah, participated in this study. The study tools were an achievement test, and the Torrance Test of Creative Thinking (TTCT), the verbal form (A). The collected data were statistically analyzed with (ANACOVA) and (T-test). The findings were as follows:

1. Statistically significant differences were found at (p<0.05) between the mean scores of the experimental group students and the control group students in the total score of the achievement test.
2. Statistically significant differences were found at (p<0.05) between the mean scores of the experimental group and the control group in the cognitive levels of knowledge, comprehension, application, analysis of Bloom's Taxonomy.
3. No significant differences were found between the mean scores of the experimental group and control group in the cognitive levels of synthesis and evaluation.
4. Significant differences were found at (p<0.05) between the mean scores of the experimental group and the control group in the total score of Torrance test.
5. Significant differences were found at (p<0.05) between the mean scores of the experimental group and the control group in the fluency and flexibility components of the Torrance test.
6. No significant differences were found between the mean scores of the experimental group and control group in the originality component of (TTCT).
7. No significant differences were found between the mean scores of the highly creative students and low creative ones in the experimental group in the achievement test.

For the above findings, the researcher concluded that the 4mat System is partially effective in enhancing achievement and creativity of the students, in the English course. Also, there is no relationship between their achievement and their creativity. Further research is recommended.