

The Impact of the Strategy of Searching for the Other Half in the Development of Scientific Concepts and Critical Thinking among 6th Grade Students in the Basic Science and Life

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Abstract

The aim of this Study is to find out the Impact of the research Strategy on the Other half in Acquiring the Scientific Concepts and Critical Thinking of the 6th grade students in Science and Life, and to indicate whether this effect varies according to the sex and the way they interact with each other.

The Society of the study is composed of students of the 6th grade in the Directorate of Hebron in the public schools affiliated to the Ministry of Education, which are enrolled in the academic year 2018/2019, which are (6134) students, including (3074) students and (3065) students. The study was carried out on an objective sample of 126 students from Ismail Al Natsheh Primary School for Boys and Suad Al Natsheh Basic School for Girls, divided into four study groups. Two teams were appointed to represent the experimental group, 63 students who studied using the search of the other half, and two groups representing the control group (63) students studied in the usual method.

In order to achieve the Objectives of the study, the researcher prepared a test of scientific concepts, a test of critical thinking, and verified their validity and stability through the analysis of data were used for statistical averages and standard deviations, and the use of ANCOVA.

The results of the study showed that there are differences between the average performance of students in the test of Scientific Concepts and the test of Critical Thinking skills among 6th grade students in science and life due to the method of teaching and sex and in favor of the strategy of searching for the other half and females. There are no differences between students' And the test of critical thinking skills of 6th grade students in Science and Life due to the interaction between the method of teaching and sex, and based on the results of this study the researcher recommended to organize training courses for supervisors and teachers of science to use the form of searching for the other half for its positive role in increasing the collection, developing scientific concepts and taking the results of the study into consideration in the preparation of curricula of science and educational materials. These curricula include teaching procedures according to the strategy of the search for the other half. The study recommends that teachers should use the strategy of the other half, which contributes to the provision of educational content in a way that Students can understand and realize the relationships between its parts.