

## **The effectiveness of cooperative learning with Jigsaw 1 strategy in developing knowledge and skills of drawing some women pants pattern**

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### **Abstract:**

Those involved in the matter of learning are concerned with everything related to the learner, developing his various abilities and skills, and investing everything that supports educational situations to build the learner's personality in an integrated way. Collaborative learning is one of the teaching techniques It was brought by the contemporary educational movement, which has proven some positive research and studies on the positive impact of the academic achievement of students. Gupta & Pasrija (2012) classifies cooperative learning models into four: group student learning, gesco, learning together, and group investigation.

JESCO method was chosen in this research because it encourages students to work in small groups, and is interested in training students in groups and assigning them to work or activity they do in cooperating societies. Also, learning takes place in a comfortable atmosphere free from tension and anxiety, and the motivation of students increases significantly. In the 1970s, educationalists and psychologists working in Austin, Texas schools adopted the cooperative learning method (Jigsaw) and noted that this method contributes to creating friendliness and harmony among group members, and other students in the class to a large degree. .

The research problem is due to the effectiveness of cooperative learning (Jigsaw 1) in developing students' knowledge and skills to draw a pattern of some pants. What is the possibility for students to achieve some social skills to communicate and interact with others during the educational situation.

This research aims to determine the effect of using cooperative learning strategy (Jigsaw 1) in developing students' skills in drawing a pattern of some pants.

The current research followed the experimental method. The experiment was applied in the first semester of 2019: 2020, and the achievement and skill aspect took about three weeks.

The research found that a fundamental difference was found between the scores of the pre and post tests in both the achievement and the skill tests, and this means an improvement in the level of post performance of the students due to the effectiveness of the cooperative learning strategy (Jigsaw 1) in acquiring information and concepts related to some types of pants as a result of increasing the effective participation of students in the process Educational, which achieves positive participation and mutual cooperation between them, and this affects the survival of the learning impact among students.

### **Keywords:**

Effectiveness- Cooperative Learning- Jigsaw1 – Trousers-Skill

### **Introduction and research problem:**

Those in charge of learning are interested in everything related to the learner, developing his various abilities and skills, and investing everything that supports educational situations to build the learner's personality in an integrated manner. Cooperative learning is one of the teaching techniques introduced by the contemporary educational movement, which some research and studies have proven to have a positive impact on students' academic achievement. . Gupta and Pasrija (2012) classify cooperative learning models into four: group learning, jisco, learning together, and group inquiry.

The Jesco method was chosen in this research because it encourages students to work in small groups, and is interested in training students in groups and assigning them to a work or activity that they do collectively and cooperatively. Also, learning takes place in a comfortable atmosphere free of stress and anxiety, and the motivation of students increases significantly. Educators and psychologists working in the schools of Austin, Texas, in the seventies, adopted the cooperative learning method (JISCO) and noticed that this method contributes to the formation of friendliness and harmony among the members of the group, and other students in the class to a large extent. (4)

Cooperative learning can be taken advantage of as one of the active learning strategies to teach the pattern of some models of women's trousers using the basic pattern of the trousers. Patterns are the main skill in the field of clothing industry, where the success of this industry depends on the correct pattern and ends with the chosen design. Therefore, studying the basics of preparing patterns is important and necessary When we get a technically sound pattern, we reach the middle of the production process, and accordingly, the healthy pattern is considered the first factor affecting the production of clothes. (15)

And from the reality of the researcher teaching the students of the fourth year in the Department of Home Economics at the Faculty of Specific Education, she found that teaching the practical skills of drawing a pattern of some models of women's trousers using the basic pattern of trousers needs more effective teaching methods than the traditional methods that focus mainly on the teacher, and that the curriculum is not It deals with the quality of these patterns and is limited to the case of the basic pants pattern only. Hence, the need for the current research that uses the cooperative learning strategy to draw this type of patterns and focus more on the role of the student in an attempt to develop skills and knowledge for students of home economics.

From the above, the research problem is summarized in the following questions:

- What is the effectiveness of cooperative learning (Jixo 1) in developing students' knowledge and skills to draw the pattern of some models of women's pants.

What is the possibility of students achieving some social skills to communicate and interact with others during the educational situation?

### **Research Objective: It aims to:**

- Determining the effectiveness of using cooperative learning (Jixo1) in developing students' cognitive achievement.

- Determining the effect of using the cooperative learning strategy (Jixo 1) in developing students' skills in drawing a pattern of some models of women's pants.

Get to know the students' opinion of that strategy.

The importance of the research: It is represented in achieving the following objectives:

- Applying the cooperative learning strategy (JIXO1) in developing the knowledge and skills of drawing a pattern for some models of women's pants.
- Enriching the specialized libraries with scientific studies on the use of cooperative learning (JIXO 1) in drawing the pattern of some models of women's trousers.
- Urging students to work together and accept the other, which increases its positivity within the educational situation.

Exiting the traditional methods of learning and adopting modern methods to reach the maximum possible benefit for the learner.

### **Search Limits:**

Objective limits: Four models of the women's pants pattern.

Time limits: The experiment was applied in the first semester of 2019-2020, and the application of the achievement and skill side took about three weeks.

Spatial limits: applied in the Faculty of Specific Education - Clothing Atelier, Department of Home Economics - Aswan University

Human limits: Fourth year students, Department of Home Economics, Faculty of Specific Education - Aswan University.

The first group: The survey sample consisted of (8) students

The second group: the experimental sample consisted of (16) students

Research Methodology: The current research follows the experimental method.

### **Search Tools :**

- A cognitive achievement test (before/after) to measure students' attainment of the information and knowledge included in drawing the pattern of some models of women's pants.
- An applied skill test (before/after) to measure the level of students' performance to draw the pattern of some models of women's trousers.
- Scale for evaluating students' skill performance while implementing a pattern drawing of some models of women's trousers.
- A questionnaire to know the students' opinion on the use of the Jixu method (1)
- Social skills form that is measured within groups during learning.

### **Research hypotheses:**

The first hypothesis: There is a statistically significant difference between the mean scores of the pre/post tests in the achievement test in favor of the post application.

The second hypothesis: There is a statistically significant difference between the mean pre/post scores in the skill test in favor of the post application.

The third hypothesis: There is no statistically significant difference between the average scores of students in the post-achievement (cognitive) test, and the post-test.

Fourth hypothesis: Students' opinions are positive in using the Jixu learning method (1).

The fifth hypothesis: Students achieve a high level of social interaction within groups while learning with the cooperative learning strategy (JESCO 1).

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