

## Experimental entrances to environmental materials to produce clothing supplement with new formulations

**Dr. Amani Shaban Ali Mohamed**

Lectuerer at Clothes and textile - Department of Home Economics - Faculty of Specific Education - Fayoum University

[aashali@kku.edu.sa](mailto:aashali@kku.edu.sa)

### Summary:

Experimentation has taken on a great importance in the modern era. The development that takes place around us is a result of contemporary experimental thought, so the artist has become a method of research and experimentation as a starting point for an idea that changes a thing that exists to a new form.

And nature around us abounds with many different raw materials that affect the human being and its culture and shape its habits and behavior. These materials are considered as stimuli for the artist, as they reflect the aesthetic organization and various formative capabilities of a structural nature and formative suggestions that appear on the surface of the material, which stimulates the artist to imagine and invent formulas, new formality and taking advantage of the formalities of these materials and their lines, areas, shapes and colors.

Therefore, the material represents an important axis in its relationship with the experimental process that the individual uses to express what is going on in his thoughts, and the artist must preserve its own characteristics in order to highlight its artistic richness, as the properties of the material affect effectively in the final form in the artwork, and give the material through some techniques multiple formative capabilities. It earns her a new garment of artistic formulation, as technology has an important and fundamental role in any plastic art work, as it represents the artist's experience and his ability to implement his ideas and embody them. The artist must be able to experiment and reveal methods of formation and expression, and this can only be achieved through eating Her new visions and thought are exciting for her and an introduction to being an expressionist medium. The artist's imagination visualizes the artistic form in his mind and has a mental image in order to be able to produce something new.

### Research problem:

There are environmental materials available in the environment around us that can be customized and used to produce clothing supplements with modern formulations

Hence the research problem came in the following questions:

- 1- Can environmental materials be used to produce clothing supplements with new formulations?
- 2- What is the extent of the effectiveness of environmental raw materials in the production of clothing supplements in terms of (modernity - accuracy and workmanship - balance - diversity)?

### Research importance:

- 1-Providing opportunities for experimenting with environmental materials to produce new, formative clothing supplement.
- 2-Finding new employment for environmental materials through formation to produce clothing supplements.

- 3-Producing clothing supplements that have aesthetic function.
- 4-Facing the rise in the prices of traditional raw materials with models of cheap and unused environmental materials used to produce innovative models.
- 5-Enriching the field of clothing supplement with everything new and out of stereotypes.

### **Research aims :**

- 1- Knowing how to use environmental materials to produce new clothes supplements through experimenting with environmental materials.
- 2- Determine the extent of benefit from environmental raw materials in developing technical visions of clothing supplement.

### **Research hypotheses:**

- 1- There is a statistically significant relationship between the possibility of producing clothing supplements from environmental raw materials with new formulations.

Research Methodology:

This research follows:

- 1- The experimental approach in measuring the extent of benefiting from the plastic formulations of environmental materials in the production of clothing supplements
- 2- The descriptive approach in analyzing and describing the executed pieces

### **Research limits:**

Objective limits: the use of environmental raw materials such as (absorbent - ice cream stick - wax glue - sulfur sticks - plastic carbonated water bottles - balloons - clouds - staples - soda mineral cover - buttons)

Time limits: School year 2018-2019.

Constants and variables:

Constants: Environmental raw materials.

Variables: clothing supplement.

Research tools: questionnaire.

### **Research terms:**

The material: the material before it was formed by the artist and transformed in a currency into aesthetic material that carries formative and expressive values. (Ehab Mohammed Al-Zuhri: 2000,16)

Innovative formative treatments: means innovative solutions that are characterized by seriousness and originality by means of relationships and ideas developed for the various physical media and methods of implementation from flat and embodiment touches and with various unconventional distributions on the surface of artifacts. (Amal Owais: 2008, 2)

Supplements: They are additions or pieces that accompany major things to increase their beauty and elegance, and if they themselves are secondary and not essential, clothing supplementation can increase the beauty and elegance of clothes if you add them in a distinct and elegant style. (Nadia Mahmoud: 1999, 5)

**Results:**

The results were reached by evaluating the implemented pieces in achieving the research hypothesis, and a questionnaire was designed to evaluate the implemented pieces for specialists and contains the following items:

- 1- The used material is new and updated.
- 2- The suitable material used for the executed piece.
- 3- The method of implementation is new in the field of clothing supplement.
- 4- Availability of precision and workmanship in the executed piece.
- 5- Aesthetic values are available through (proportion and proportion - unity - balance - rhythm).
- 6- The diversity of the use of raw materials enriched the clothing supplement.

The questionnaire was presented to 10 specialists in the field of home economics to know their views in achieving the research goal, and the questionnaire form contained 6 phrases to arbitrate the proposed designs, and each phrase was answered with a score of 1 to 5 so that (5 = I strongly agree, 1 = I do not strongly agree). After seeing the design, reading the survey items, then conducting statistical **transactions**.

Test the extent of honesty and consistency:

The researcher used the Kendall's Coefficient to verify the agreement of the specialists.

The results were according to Table No. (2):

Table (2) results of the Kendall laboratories for the agreement among the specialists

clause	Kendall Lab	Significance level
1	0.669**	0.00
2	0.570*	0.0
3	0.625*	0.0
4	0.528*	0.0
5	0.575*	0.0
6	0.507*	0.0

It is noted from Table (2) that the value of the coefficient of agreement between specialists for Kendall ranges between (0.507 \* - 0.669 \*\*) and the first item came at the level of a function (0.01). While the rest of the items at the function level (0.05), which indicates a clear agreement between the specialists in arbitration designs

Statistical methods used in the research

**The researcher emptied and analyzed the questionnaires through the Statistical Analysis Program (SPSS) and we will explain the statistical tools used:**

- 1 - Percentages and arithmetic mean.
- 2- Statistical description and data analysis of the responses of the study sample individuals using (arithmetic mean - standard deviation).

Statistical description of the proposed designs from the specialist's point of view:

The data was analyzed using the SPSS program, and a statistical description was made of the responses of the study sample individuals to identify the best proposed designs from the specialist's point of view using (arithmetic mean, standard deviation).

The researcher determined the proficiency rate, which is 80%.

 <p>3</p>	 <p>2</p>	 <p>1</p>
 <p>6</p>	 <p>5</p>	 <p>4</p>
 <p>9</p>	 <p>8</p>	 <p>7</p>
 <p>12</p>	 <p>11</p>	 <p>10</p>
 <p>15</p>	 <p>14</p>	 <p>13</p>
 <p>18</p>	 <p>17</p>	 <p>16</p>
 <p>21</p>	 <p>20</p>	 <p>19</p>

We note that piece No. 6 took No. (1) in relation to the opinions of specialists, where the percentage came to 97.66%, and thus reached the percentage of proficiency. And piece No. (2) came in second place, where she got 95.33%, and piece No. (12) in third place with 92% And segment No. (1) is ranked fourth with 91.33%, and segment No. (4) is ranked fifth with 91%, and piece No. (13, 14) is ranked sixth with 90.66%. And segment No. (5) Is ranked seventh with 90%, and piece No. (7, 8) is in eighth position with 88.66%, and piece No. (16) came in ninth place with a percentage of 85.33%, and piece No. (9) came in tenth position with a percentage of 84.66 and piece No. (19) In the eleventh position with a percentage of 84%, and segment number (20) In the twelfth position with a percentage of 83%, and segment No. (10) in the thirteenth place with a percentage of 81.3%, and segment (3, 17) in the fourteenth place with 81% and segment No. ( 15) In the 15th position, with a percentage of 80.66%. Segment No. (18) came in the sixteenth place with a percentage of 77.66%, and segment (11) came in the seventeenth position with a percentage of 77% and segment (21) came in the eighteenth place with a percentage of 74%.

(18) pieces obtained more than 80%, meaning that they reached the degree of proficiency, and (3) pieces obtained less than 80%.

The values of the standard deviation for all parts came very good, ranging between (1.173 - 4.894) and emphasized that the opinions of specialists in evaluating the parts were not dispersed, while one piece obtained a standard deviation (6.373), which is an acceptable degree and emphasizes that the grades are not dispersed.

Through the previous results, the research hypothesis was achieved (environmental raw materials can be used to produce clothing supplements with new formulations) in eighteen pieces, with a rate of 85.71%.

## Recommendations

- 1- The necessity of putting experimentation in the academic curricula, as experimenting with different materials leads to an infinite flow of creative ideas.
- 2- Paying attention to the aesthetic aspects of clothing supplement at the lowest possible cost.
- 3- Supporting the Social Fund for small projects based on the exploitation of environmental raw materials.

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