

Enriching Artistic Works with Leftover Colored Paper Using The Art Of Colored Paper Quilling For Female Students Of The College Of Home Economics To Achieve Sustainable Development

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Abstracts

The field of artistic works is witnessing continuous changes and developments in new sciences and modern technologies. This is due to the community's need for these works of art, and as a result of the colored papers remaining from paper manufacturing factories that are not used. The idea of the research was to use these remains to enrich the artwork and give it a contemporary appearance by using colored paper draping techniques to enrich the aesthetic aspect of the artwork. The research aims to achieve three basic axes: an axis to demonstrate the plastic possibilities of the art of colored paper quilling in its various forms, an axis to show the aesthetics of contemporary artwork from the remains of colored paper, and an axis concerned with the implementation of innovative artistic works that achieve sustainable development by linking them to create contemporary designs for use in the artistic work. . Collage style to enrich the field of artistic works among home economics students. Through these entries, the concept of collage art, its types, and its various plastic possibilities were clarified, and the different plastic possibilities of this art were identified. The research also relied on the experimental descriptive approach, through the experiment on fifth-level female students in home economics at King Khalid University. One of the most important results we reached. The hypotheses have been verified and it has been proven that experimenting with the remains of colored paper used in paper mills can achieve various plastic and tangible artistic values that enrich the artistic work of home economics students and achieve sustainable development. The current research recommends experimenting with the aesthetics of collage art using other materials.

Keywords: Enriching artistic work - leftover colored paper - the art of colored paper quilling - sustainable development - female students of the College of Home Economics.

Introduction

In many cases, anyone can create great models with little effort. However, it is necessary to pay attention to some basic rules that are followed in the art of quilling, as they are important even for the simplest designs in order to give these artistic models a special elegance (Maher Mikhail - 2006). .

One material that has seen renewed use in contemporary artwork is paper. It has been used through a variety of different twists to give it a wonderful shape, which is known as the art of draping.

Given the waste produced by the paper industry, which many factories do not pay attention to, it is considered a wealth if it is used in a way that achieves an economic return due to the possibility of artistic formation in it, through the best use of leftover colored paper to enrich the aesthetic form of the artwork. Achieving sustainable development and achieving high economic value through the use of quilling art and leftover colored paper.

Research problem:

The research problem is determined by answering the following questions:

1- Is it possible to benefit from the art of quilling to enrich artistic work through the use of leftover colored paper by female students of the College of Home Economics to achieve sustainable development?

This problem includes the following questions:

- 1- What is the potential benefit from using quilling techniques to create contemporary designs?
- 2- What is the possibility of enriching the aesthetic value of the artwork design through the use of leftover colored paper?
- 3- What is the possibility of achieving sustainable development for works of art through reusing leftover colored paper?

Research Objectives

The research aims to:

- 1- Learn about the art of rolling colored paper and the possibility of using it in artistic work.
- 2- Using the art of quilling to create contemporary designs used in works of art to achieve high economic value.
- 3- Creating contemporary designs using the art of colored paper quilling to enrich the artistic work of home economics students - King Khalid University.
- 4- Achieving sustainable development by reusing leftover colored paper in contemporary works of art.

research importance :

The importance of the research is due to:

- 1- Working to benefit from the aesthetics of the art of quilling to enrich the aesthetic aspect of contemporary artistic works.
- 2- Obtaining innovative designs for artwork using leftover colored paper and quilling art enriches the artistic work of home economics students.
- 1- Highlighting the importance of recycling in light of sustainable development concepts.
- 2- Contributing to giving women a culture of sustainability and environmental preservation through recycling.

research assumes :

- 1- The research assumes that using leftover colored paper using the paper-rolling method in contemporary designs enriches the artistic work of home economics students and achieves sustainable development.

Research Methodology: -

The research follows the experimental descriptive method.

search limits :

- 1- Time limits for research:

It is represented by the time period for conducting the applied experiment (two months with eight interviews, meaning each interview is a week).

- 2- Limits of spatial research:

The applied aspect is limited to students of the Faculty of Home Economics - King Khalid University.

- 3- Objective limits of the research:

- An applied study of the plastic values of colored paper for use in some contemporary artistic works.
- Using leftover colored paper from factories.
- Use draping techniques.
- Recycling leftover colored paper to achieve sustainability.

Search terms:

Works of art:

These are works characterized by an artistic sense, which are produced by an individual using appropriate tools to subject the available materials to experimental methods. They reflect the concepts and ideas of the artist's visions in ways that can be perceived by the senses (Haidi Yahya Abdo Ali Diab (2016).

Paper Quilling Art:

The word "rolling" means working with paper rolled into circles inside each other, or working with paper using the metal making method using holes, after cutting the paper into thin strips. It is an ancient decorative art (Inayat Al-Mahdi - 1997).

Sustainable development:

It is development that meets the aspirations and needs of the present without compromising the ability of future generations to meet their needs.

It is also known as "new technology that allows us to increase well-being and quality of life in all economic, environmental and social aspects and to take into account the ability of future generations to enjoy this quality of life."

Recycling :

It includes the process of treating waste so that it can be used as raw materials in the same process that generates it or in other processes, or remanufacturing and recovering waste into new goods to reduce its impact on the environment.

Literature Review:

It includes three axes: the first (artwork), the second (the art of paper quilling). Third:)the sustainability axis.(

the first :artwork:

1- A study by Moataz Fathi Hassan (2006) entitled (Composition of paper pulp to create contemporary artistic masterpieces). The study aimed to enrich artistic works with materials, whether these materials are new or to renew the method of dealing with them, and to benefit from the possibilities, data, and aesthetics of coexistence and interaction between some materials with papier-mâché, and to develop new methods of synthesis. One of the most important findings I reached is that experimentation and shaping using papier-mache paved the way for contemplating artistic work with its materials and diversifying them. It then became possible to see the extent to which papier-mâché was used as a material for artwork, and thus ideas, materials and techniques were brought together into a single system. Her goal is to make the artistic work a success.

2- Fatima Sayed Muhammad Al-Wasimi's study (2003) entitled (The plastic possibilities of characterization on canvas as an introduction to experimentation in the field of artistic works). This study aimed to reveal the different methods of synthesis on canvas in the Egyptian artistic heritage and the plastic solutions associated with them, and to attempt to find innovative

formulations. For artistic artifacts, in light of the plastic solutions associated with the methods of synthesis on fabric, I arrived at: creating compositions on fabric based on synthesis with the human heritage, and the possibility of drawing inspiration from plastic values and adapting them to find new formulations and solutions for artistic artifacts.

3- A study by (Dina Kamal Muhammad Al-Tantawi (1997)) entitled (Innovated artistic and technical approaches to combined (lace) tapes to enrich the teaching of artistic works. The study aimed to find innovative artistic and technical approaches so that they can be presented as objective teaching approaches, and to identify the variables that can affect Manufacturing compiled tapes (laced) and monitoring them as relationships that can be tested, and opening new horizons by employing compiled tapes (laced) in front of schools for the technical subject of Ashfall, to separate them from traditional employment.

Second: Studies of the second axis: the art of rolling colored paper:

1- Study (Manal Muhammad Rashad (2015): entitled (The possibility of benefiting from the art of origami in making innovative artistic crafts and applying them in the field of small industries). The study aimed to use the art of origami in creating innovative artistic works to help young people who own small projects to develop a new field. For artistic works with the aim of developing small industries, and bringing artistic works to a high degree, and I achieved designs that combine originality and modernity, as the research made 18 innovative designs. The study was limited to using origami techniques and adapting them into (mattress - pillow - curtain - bouquet of roses). -Fazza)

Using various techniques from the art of origami - bead inlay - relief printing - burning using a soldering iron - laser cutting, in order to enrich the field of artistic works.

2- A study (Iman Hassan - 2013) entitled (Designing a website to teach technical methods of paper work). The study aimed to design an educational website on the Internet in paper work techniques and to achieve the effectiveness of the educational site for acquiring paper work skills. It reached: Identifying the concept of paper work and methods. Different types of paper working techniques, identifying the different types of papers on which the techniques can be used, determining the steps followed for all paper working techniques and implementing them with perfection.

3- A study (Ayman Ahmed - 2013) entitled (The aesthetic and plastic values of the paper material (the art of quilling) in light of teaching artistic works). It aimed to find new innovative solutions for the three-dimensional artistic work using the flat paper material and to reveal its aesthetic and plastic potential and concluded: The concept of artistic works It has become linked to discovering the aesthetic and expressive potential of the paper material and revealing all that is new and innovative in terms of research and experimentation. The concept of artistic works is not only achieved by learning about the concept of the material and techniques, but rather it is important in learning and experimentation.

4- A study by Amal Al-Fayoumi and Ola Abdullah (2008) entitled Utilizing leftover fabrics and scarves

Non-fashionable techniques in enriching the aesthetics of presentation by using different techniques to serve small projects. The study aimed to train a group of female graduates on various techniques for making presentations in a simplified, new, and fashionable way by taking advantage of leftover fabrics and scarves that are not in keeping with fashion, as a start for them in creating a small project.

Third: Sustainable development axis:

1- A study (Nahla Abdel Ghani, Hala Othman: 2021 AD) entitled (An engineering design vision for implementing contemporary furnishings using patchwork technology in accordance with the sustainable development strategy, Egypt Vision - 2030 AD) and aimed to integrate female graduates of the Department of Home Economics into the labor market and qualify them in accordance with market requirements. Work and develop their abilities in employing their ideas and previous experiences and building their new knowledge, as well as achieving compatibility between the requirements of female graduates and the labor market, and identifying the extent of trainees' interest in the training program for implementing contemporary furnishings using patchwork technology in accordance with the sustainable development strategy, Egypt's Vision 2030, The study found that training using the constructivist method is effective in qualifying female graduates in a way that is compatible with the requirements of the labor market. It also found positive opinions of arbitrators and consumers towards furniture executed using patchwork technology, and positive opinions of female graduates towards training.

2- A study (Hind Ahmed, Amna Shaher: 2020 AD) entitled (The possibility of benefiting from hand embroidery methods and leftover fabrics in producing innovative designs for children's bedding as a model for local community development) A group of bedspreads with innovative designs using the hand embroidery method and leftover fabrics and are suitable for children's bedding in the early stage. The cradle helps to support the obstacles in the relationships between local social development centers and scientific research studies. The study reached the appropriateness of innovative designs with what they contain of hand embroidery techniques and fabric remnants. It also achieved the aesthetic aspects of the design as well as the functional performance requirements for the purpose it is used for. It also achieved the possibility of benefiting from the computer. Automation in creating designs executed by hand embroidery and suitable for children's bedding in the cradle stage.

Procedural steps of the research:

First: Theoretical Framework: It includes:

- 1- Study the meaning of paper work.
- 2- About the art of quilling .
- 3- What is environmental sustainability

Second : Practical Framework :

By benefiting from the results of the study in the theoretical framework

- 1- Collecting the remains of colored paper – the paper is cut into various strips

2- Experimental practices carried out by first-level students at the Faculty of Home Economics - King Khalid University, to benefit from the remnants of colored paper in the work of designs that are employed in the artistic work that achieve artistic and aesthetic goals.

3- Providing results and recommendations in the light of the results of the research.

First: Theoretical Framework:

Consumed Raw Materials:

It is meant in this research all the raw materials that were used before in a variety of functional purposes, and became useless for the purpose for which they were made for the end of their function, and thus are recycled and used in a new form and function, "Although they are a cheap source of raw materials used in the practice of artistic expression, but they remain hidden from sight as long as the human being is unaware of their importance, passing through them in passing, and can not penetrate into them and identify their value and production by them" (Salem Ahmed Mahmoud Khalil, 2011) Through dealing with different raw materials, we find that the consumed raw materials are from rich, available and inexpensive sources, through which many plastic and technical treatments can be accessed that give novelty and originality to the material used by reusing it contemporary, "The intellectual and plastic concepts of the artist have varied towards the intellectual and plastic employment of the material, the concept of art has changed after the Second World War, where it appeared in this period diversity and difference with regard to the nature of the use of consumed raw materials in postmodern art, depending on each trend, some artists have used multiple inputs to raw materials through ready-made raw materials, trash and traditional and new raw materials, mYou will serve a range of technical skills and various artistic methods, and they have used these inputs for their metaphorical potential to refer to topics and ideas through the tension between known things and their unexpected contents, which will result in seeing and thinking about consumed raw materials through new angles based on the intellectual and philosophical side of the artistic trend and related to the aesthetic concepts of eating the material, throughA range of methods such as synthesis, assembly, installation and combining techniques and expertise into a work of art that is interconnected by a holistic unity."9 By relying on experimentation, which contributes to reaching a set of technical treatments appropriate to the nature of each material and each artwork complementary to decoration, "where it is considered one of the most important ways that help the artist to develop and grow, through which he reaches a number of treatments, formulations or plastic solutions based on artistic observation, and on his creative potential to reach works of art through which he achieves his individuality and ability to innovate" (Mounir Baalbaki, 1981).

Therefore, the current research chose the use of consumed raw materials to be a source for the development of artistic work through experimentation processes, and conduct a set of technical and plastic applications that are selected and synthesized between them according to the nature of the material used and color, to choose the best technical and plastic methods that would contribute to the exit of the artistic work in its final form, which is characterized by novelty, originality and contemporary, and the raw materials consumed in this research mean all forms of colored paper that were used before in a variety of functional purposes, And became useless for the purpose for which it was made for the end of its function, and thus was reused in a new

image and function, and most forms of colored paper are associated with the term sustainability, as it is based on taking advantage of the available raw materials through the application of a set of technical and plastic methods to come up with artifacts characterized by novelty and originality, and this research is interested in presenting the difference between recycling and reuse and their relationship to sustainable development

The concept of sustainability and its relationship to the recycling of paper waste :

The concept of sustainability appeared to try to preserve the available environmental resources and avoid wasting them, and take advantage of them as much as possible, so the trend was to use environmentally friendly materials, and reuse raw materials that can not be easily disposed of except by recycling them such as paper residues, and sustainability is defined as "the process of developing land, cities and communities, as well as businesses so that they meet the needs of the present without compromising the ability of future generations to meet their needs, as for recycling, two terms have emerged for him.(21)

A- Recycling for the better:

It is defined as "the treatment of materials used such as: domestic, agricultural or industrial waste, and re-manufacturing and converting them into products useful to humans, and this process is done by separating the waste from each other first, based on the raw materials that make it up and then remanufacturing each material separately" It is "the process of converting waste or useless products into new materials or products that have an environmental benefit or of better quality, that the goal of recycling for the better is Prevent waste of potentially useful materials by exploiting existing materials, reducing raw material consumption when manufacturing new products, reducing energy consumption and reducing air and water pollution and toxic gas emissions.

B- Recycling to reduce value:

It is usually defined as the reuse of various human waste with the aim of reproducing it and converting it into other products of lower quality than the original product, which is the reuse of waste "to produce other lower quality products.(22)

The difference between recycling and reuse and their relationship to sustainable development :

In recycling, "a material such as metals and aluminum is returned to its initial form, where it is melted and remanufactured, while reuse is where things are reused again, such as plastic containers that are washed and repackaged or cardboard in which certain shapes are formed, and in each of them the materials retain their chemical properties and do not change. From the above, it is clear that recycling is related to the remanufacture of consumables according to the nature of the raw material constituent thereof, while reuse is the use of manufactured materials without the need for remanufacturing through a set of technical treatments according to the nature of the reused material, and these concepts are closely related to sustainable development, as the main goal of which is to preserve the available resources and not waste them, and to preserve the resources of future generations, but reuse is the closest term The artifacts are the product of this research, as they depend on the reuse of consumed raw materials to create artistic artifacts characterized by contemporary, novelty, originality and sustainability(23)

Paper Works:

As a result of industrial progress in the field of production of raw materials and tools, the modern artist provides tools and certain material media and exciting artistic creativity, so his plastic capabilities were liberated, and from the raw materials that increased the renewed use of them in contemporary artworks, paper raw materials and with the great development of contemporary art concepts, the paper industry for the artist is no longer limited to the traditional paper industry, but extended to include types of paper that preserve aspects of the plastic data, color, linear and tactile materials of the materials from which paper is made, along with techniques The novelty invented by contemporary artists in the field of paper formation by synthesizing paper materials with auxiliary and additive materials such as aluminum foil, copper, dry plant sticks and wool hair, provided that this synthesis shows the aesthetic aspect of paper in itself and the additions are for the purpose of plastic poses aesthetic values added to the paper material from paper fibers or what is called artistic paper (Ahmed Suleiman-2000).

The degree of softness of paper types differs from each other according to the degrees of density due to the self-composition of the percentage of cellulose as raw materials for each type from the other as a flexible, diverse and stimulating material to work out, in addition to the advantage of low cost and availability in sizes and wonderful colors and a multiplicity of ideas and innovations that can be implemented through it.

About the art of quilling:

This art has been known since ancient times in England as an art of working with rolled paper or the art of perforated paper and the word quilling means work wrapped in paper and decorate things with it, an art unique to America from the rest of the other countries and there is a possibility that at that time the paper was wrapped in the form of round rolls around the feathers of birds.


present, there is no need for this aid to wrap paper around it, but it has been replaced by other things to wrap paper on it, and a delegation found models of this art in Britain in rural cities.










(Paper models) were used in places of worship during the fifteenth century until the Protestant Reformation in 1320, when the first paper factory was founded in England.



Paper Forming:

- Open forms of paper rolls are used in the formation of experiment and exercise a slide of paper with a length of 102 mm
- The work of closed shapes paper rolls used in the preparation of these shapes a slice of paper length of 25 cm for exercise and experience and you will need adhesive for the patch.

Table (1) shows the method of forming paper (Enaya Al-Mahdi-1997)

Making the open dissolved roll	Form the roll with the stop of twisting about 25 mm before the end of the slice and leave the roll to jump, open and leave unglued	
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Making an open shape with paper rolls	The paper slice is folded in half and a small crumb is made and each end of the slice is wrapped towards the center, leaving the rolls to jump and leave without sticking or sticking from the point of contact of the two rolls with a light paste.	
V-shaped implementation	To implement these follow the same method as the previous to prepare the shape of the heart, but each side is wrapped away from the half crumb	
Formation of S-shaped rolls	One end of the slide rotates just beyond the middle, then releases it by flipping the slide, and the other end is twisted just beyond the middle and releases it as well	
	One end of the slide wraps the paper towards the center and releases it, then the other end is rolled towards the center and it is also left to release.	
Making a large tight roll (full)	The slice is wrapped on a large tool such as a rod and the tip is glued to the extent that you can remove the roll from the coils easily and it is better to paste the tip on the tool This basic shape can then be formed into petals and other shapes. Dissolving or unscrewing the locked roll, wrap the slice to the end, but before gluing the tip, leave the wrapped slice to expand to the required size.	
Pearl Drop	Work a dissolved roll and after pasting pinch one end in the form of a pointed try to be the glued end part of the pointed tooth.	
Eye shape	Follow the directions for the work of the drop, then damage the drop and pinch on the other end with a pull to form the body of the eye.	
Leaf shape of the plant	We follow the directions for the work of the eye shape and with the disc of the other end form the roll gently to take the form of a leaf plant.	
The shape of the flower petal	We follow the instructions for making a pearl drop and with you pulling one of the parties gently form the piece to take the shape of a flower petal.	

Triangle shape	We follow the directions to make a loose roll and then gently press the shape to form the shape of the triangle with the corner dial to retain the shape.	
Semicircle shape	Follow the previous directions for making a loose roll and then gently press on the pointed ends to maintain the shape	

The concept of artistic works:

Artwork is one of the important areas for the plastic artist interested in this type of art because it offers new and diverse innovative ideas through the materials that fall under a sample and hand, whether these materials are traditional or new.

Second: Practical Framework:

From the above, the study found in the theoretical framework that there are different plastic possibilities in wrapping the remains of colored paper, the research relied on the experimental approach through the experiment of the researcher, which is based on the development of a number of artifacts through the reuse of a group of remnants of colored papers consumed by wrapping paper in different ways that suit each design in order to come up with a group of contemporary artifacts that vary in shapes, sizes, papers, plastic and technical treatments, and has been standardized The background space prepared to display the artifacts complementary to the decorations, while the colors, folds, fractures and lengths of the papers prepared for the display of artifacts vary, according to the color and nature of each workpiece, and the following is a presentation of the artifacts as a result of the subjective experience of the research and the idea of the experiment is to achieve sustainability in the artistic workpiece, by taking advantage of the materials consumed to create a piece of art characterized by novelty and originality, and the research has tried to use an innovative way to display the artifacts so that the display style is an integral part of Artwork, and the search experience is evident through the presentation of artifacts as follows:

Experimentation Controls:

The controls of experimentation are determined as follows:

First: Materials used :

Remnants of colored paper – adhesive – scissors – cork

Second: - Printing surfaces:

The research experiment is based on cardboard or cork material

Third: - Methods and methods of performance typography:

1- Cutting – Paste – A – Twirl

2- The application aspect of research and technical analysis of printing works:

Artworks executed with colored paper:

Analytical description of the works:

- Type of work : Wall hanging, dimensions 40 ×60 cm
- Materials: paper strips of different colors - a piece of wood, sticks or skewers of wood for the grill and even possible pens for wrapping papers - scissors - glue - the base of the board - the frame
- Methods and methods used: paper roll method – cutting and pasting.



First artwork



Second artwork



Third artwork



Fourth artwork



Fifth artwork



Sixth artwork



Seventh artwork



Eighth artwork



Ninth artwork

Findings and recommendations:

First: Results

- 1- The study found that sustainable development can be achieved by identifying the nature and aesthetics of the remaining colored paper residues in paper factories, and recycling into contemporary artifacts.
- 2 - The study found that plastic and aesthetic values can be achieved for the aesthetics of colored paper and formulated artistically combines spontaneity and intention in the field of artistic works.
- 3- The validity of the hypotheses has been verified and it has been proven that it is possible to experiment in the remnants of colored paper used in paper factories to achieve various plastic and tactile artistic values that enrich the artistic work of students of home economics.

Second: Recommendations:

- 1- Attention to research and study by specialists in colleges and institutes specialized in this type of arts and shed light on its importance and aesthetic, utilitarian and economic function and develop awareness among students towards the different methods of paper material and try to apply them in the field of plastic arts.
- 2- Experimentation in the use of the aesthetics of the art of quilling using other materials.

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