

The Role of The Ninth Art to Reducing the Risk of Environmental pollution**Assist. Prof. Dr. Nasser Ahmed Hamed**

Assistant Professor, Faculty of Applied Arts, 6th of October University

nasser.h.art@o6u.edu.eg**Research Summary**

Never Human primitive at that time have a negative impact on the environment, and he did not reach coal mines, oil wells and other polluting energy sources that cause the presence of photochemical smog, and he did not invent machines that run with petroleum products, electrical or even coal, and the subsequent industries harmful to land and marine organisms, such as the manufacture of plastic bags and wooden furniture, which results in deforestation. He wasn't able to bury radioactive materials in the ground, or to release atomic bombs and leaks of nuclear reactors, nor to spray chemicals for agricultural crops for increasing crops, which led to the distortion of embryos and the emergence of cancer of all kinds, and at that time did not reach global warming due to the increase in the amount Carbon dioxide, methane and other ozone compounds, which caused a decline in the quality of water due to the change in the temperature of the environment surrounding the Nile, It's result of the industrial revolution and the frequent use of perfumes and pesticides. In the light of creating the necessary awareness to maintain the child's health and upbringing properly and teaching him good behavior towards the environment in which he lives, and in an attempt reduce environmental pollution through the role assigned to the ninth art products (paper and digital), the researcher accomplished Designing a set of comics against the environmentally destructive phenomenon of pollution, published in children's books and magazines, it's for Egyptian children.

Key words:

The Ninth Art, Environmental Pollution, Comic Art.

Introduction:

Man has now become the master of the environment after he was a slave to it. Through the ages, man has succeeded in identifying the conditions and life factors and controlling them through successive technological innovations and inventions and constructive social communication. The environment is the scourge of any society and a major cause of its backwardness, It is worth noting that we consider art and culture are the source of the civilizational heritage of societies, Therefore visual media plays a dangerous role in changing opinions and beliefs; And by redirecting the behavior of the recipient, especially with the category of children and adolescents who are considered a pliable dough that is easy to form, and it was and still is the ninth art that falls under the name (story paintings), with its literary and artistic content, which is accomplished by comics artists, that is the art of children's magazines and books With his help, the process of education and environmental awareness takes place until we reach a clean environment free of all impurities, It works to develop the thinking of these children and adolescents and to correct their behavior.

Research problem: The research problem lies in the following:

- 1- The problem of environmental pollution did not receive sufficient attention in raising it to the category of children and adolescents and finding appropriate solutions for it through the ninth art, which is one of the popular media for these segments.
- 2- Lack of technical means to educate children and adolescents that modify their behavior against the surrounding environment.

The importance of the research:

is summarized in directing the behavior of children and adolescents towards a clean environment and without pollution through the ninth art.

Research Methodology:

The research follows the descriptive, analytical, and applied study

Research Objectives:

The research aims to take advantage of the capabilities of the ninth art directed at children and adolescents in combating the danger of environmental pollution and limiting its presence.

Research hypotheses:

The research assumes that by educating children and adolescents through the ninth art, the risk of environmental pollution will be reduced.

Research limits:

Time domain: 2021. Spatial domain: Arab Republic of Egypt.

Research sample: children and adolescents from the age of 12: 18 years.

Kinds of Environmental Pollution :

- Air pollution: It is one of the most famous environmental pollutants due to its easy spread and transmission from one place to another, It is defined as any substance in the air that can cause harm to living organisms and the environment, leading to the tyranny of gases such as nitrogen, carbon dioxide and other compounds over the main component to air (oxygen), and leads to the presence of photochemical smog, as a result of the combustion of oil in engines.
- Water Pollution: It includes pollution of rivers, seas, oceans and rain, which has an impact on agriculture, fish and animal wealth, which called biological pollution.
- Soil pollution: Soil depends on the components of air and water, and the composition of air depends on soil and water.
- Sound pollution: It is a dissonant mixture of unwanted noises and sounds, which constitutes a kind of psychological pressure and causes anxiety, confusion, tension, mental exhaustion and apparent weakness in lack of concentration.
- Visual pollution: A term given to unattractive visual elements, whether natural or industrial.
- Radioactive contamination: It occurs as a result of the use of nuclear energy.
- Light pollution: It is the negative effect that artificial light has on any living creature or on the ecosystem, such as the headlights of cars.
- Thermal pollution: It is the rise in surface water temperatures such as rivers, lakes and oceans, which leads to a decline in water quality.
- Chemical pollution: using pesticides and fertilizers for agriculture.

- Biological pollution: It is the result of the presence of visible or invisible living organisms, plant or animal, such as bacteria and fungi, in the environmental medium, such as water, air or soil.
- Electromagnetic pollution: It is accompanied by electromagnetic rays as a result of the use of electricity and the spread of wireless communication devices.

The environment has been terribly affected by technical progress; It was also previously affected by industrial progress and the emergence of machines and tools based on petroleum derivatives, and accordingly the air became polluted and the water in rivers and seas polluted, and consequently aquatic organisms and living organisms such as plants, animals and birds were affected by this effect, and all of this was reflected on human health.

Types of Ninth Art Stories

This is evident from the opinion of the research sample (see Figure No. 18, 19).

The illustrated stories are technically varied between the natural style that adheres to human dimensions and proportions (see Figure 16, 17), and the cartoon style that breaks all standards of anatomy, Which is considered more popular and has a good resonance and impact in children's education, Because they are attracted to it and see in it a new world different from the world in which they live, (see Figure No. 18, 19).



Fig. ١٧



Fig. ١٦

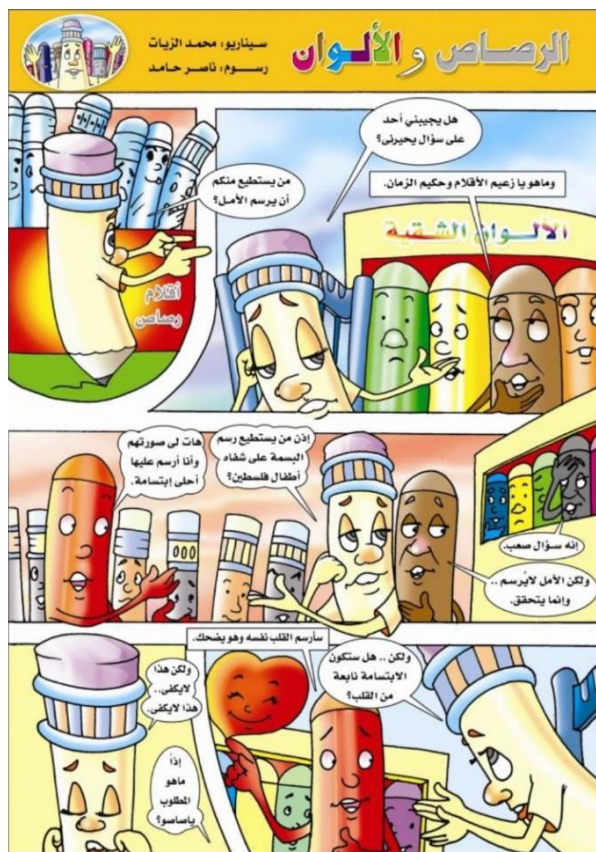
[illegible]

Fig. 19, Script: Ahmed Zeham "Qatar Al Nada", Ministry of Culture, Cairo, Egypt, Issue 602, on June 15, 2018, p33, 34, illustrations by the researcher.

There are a variety of digital applications for designing comics pages, some of which depend on the feature of stacked and adjacent Pixels in its construction, called Bitmap or Raster, such as Adobe Photoshop, Krita, Corel Painter, Sketch Book, Paint Ibis paint X, Procreate, Artflow, MediBang paint , Clip Studio paint, Sai, and those applications, including those that are compatible with the Windows or Mac system, and some of them are for Android, and those that depend on engineering equations in its construction, such as Adobe Illustrator, Corel Draw, Freehand, Animate, After Effects.

Applications on how to combat the danger of environmental pollution through the ninth art

The ninth art may play its important role in educating and raising the necessary awareness towards children, whether it is related to the danger of environmental pollution or other topics that require writers and artists to address and present them to children in a lovely artistic way that attracts them, This is evident through some of the experiments that the researcher experimented with, which were published in children's magazines and books and on the specialized websites of those magazines and books, including:

First: (Fig. 20) Script: (The father laughs out loud)



Fig. 20, Script: Abdulla Al-Morshdy "Qatar Al Nada", Ministry of Culture, Cairo, Egypt, Issue 662, on Desember 15, 2019, P:34, illustrations by the researcher.

Second: (Fig. 21) Script: (Mona and the Street Mice)



Fig. 21, Script: Ahmed Zaham, Children's Magazine "Qatar Al Nada" Ministry of Culture, Cairo, Egypt, Issue 609, October 1, 2018, p33, 34, illustrations by the researcher.

Third: (Fig. 22) Script: (Without preservatives)



Fig. 22, writer: Abdel-Gawad Al-Hamzawi (without preservatives), illustrations by the researcher.

Seventh: (Fig. 26) Script: (the intelligence of the young lamb)

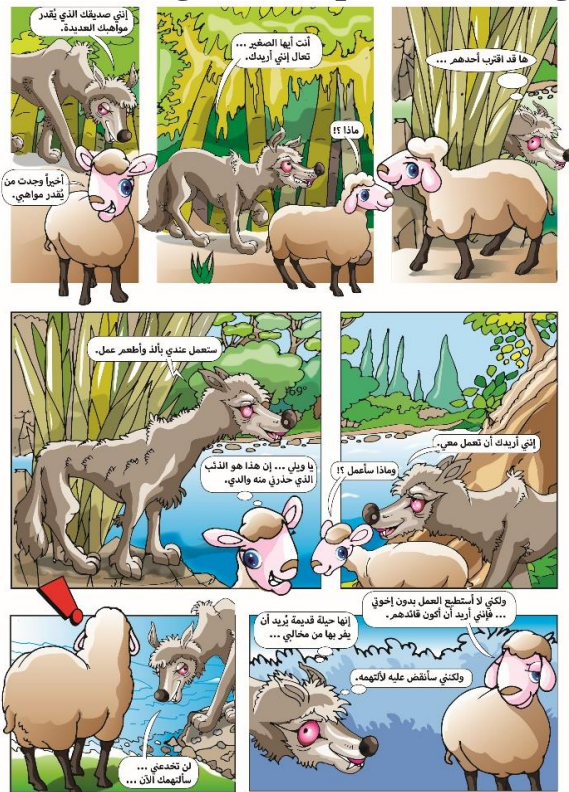
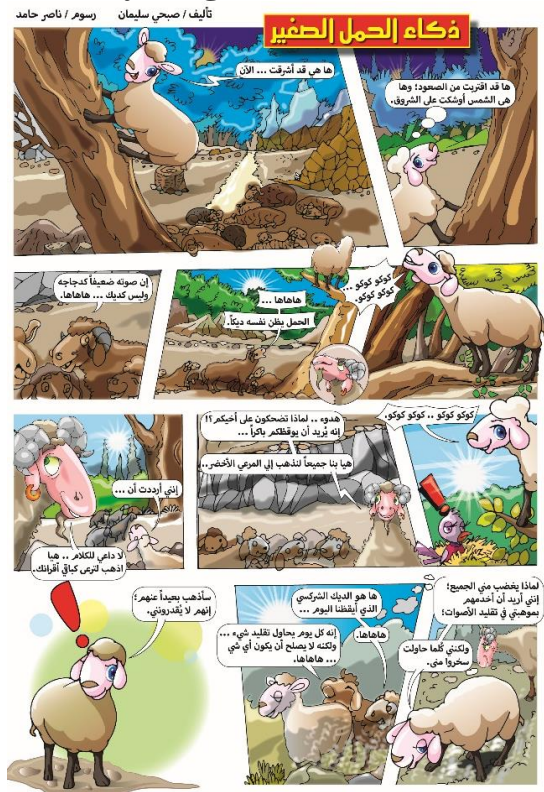


Fig. 28" by the writer Sobhi Suleiman, (the intelligence of the young lamb), illustrations by the researcher.



Ninth: (Fig. 28) Script: (Yasmina's Tales)



Fig. 28, Script by: Wafaa Abu Zaid (Yasmina's Tales), "Al-Firdaws" magazine, Ministry of Awqaf, Cairo, June issue, page 3, 4, illustrations by the researcher.

Results:

By reviewing the role of the ninth art to reduce the risk of environmental pollution, we reached the following results:

- 1- The use of establishing publishing houses for the production of magazines and books to address children and adolescents with illustrated stories that modify their behavior against the environment around them.
- 2- Finding a team of writers and artists to produce continuous series of illustrated stories directed to children and adolescents, which in turn work to tackle the problem of environmental pollution and spread environmental beauty.
- 3- Through the ninth art directed to children and adolescents, the role is cast on the chemical waste resulting from the operation of factories in the Nile, seas or oceans so that this does not cause the complete elimination of fisheries and marine life, and the preservation of the remainder of the ozone layer through Reducing the use of pesticides and volatile substances found in some types of perfumes, deodorants, and gas for air conditioning and refrigeration devices, and moving factories from cities and populated places and from agricultural lands to the desert and working to reduce the proportion of carbon dioxide resulting from them, and spreading trees in cities crowded with factories in order to create A process of balancing between what those factories emit from gases that are destructive to the environment and what trees transform into pure oxygen that benefits living organisms, and not to throw plastic bottles into the Nile or the seas and oceans so that this does not cause the elimination of marine organisms and the spread of epidemics, and the preservation of wood wealth by suppressing Forest fires as soon as they break out.

References:

- Abdulrazek Eman (Tatheer Uslob Hayat Al-Ensan Al-Bedaei Ala Al-Semat Al-Fania Heresomaho Al-Tabiria) Magalat Koliet Al-Tarbia, Gameat Boor Saeid, Al-Adad 9, Al-Goza Al-Awal, yanayer 2011.
- Khairy Ezat Mohamed (Al-Goghrafia wa Moshkelat Taloth Albiah) Al-Amana Al-Ama Letehad Al-Gorafieen Al-Arab, Misr, 1993.
- Frank R. Sbilmann, Nancy A. Waiting (Elm Wa-Takanet Al-Biah.. Al-mfaheem wa-Ltatbikat) Al-Monazama Al-Arabia Leltargama, Bairoot, Lebnan, Taba Ula 2012.
- Awad Mohamed Hasan "Doctor" (Al-Biah wa-Moshkelat Al-Taloth) Dar Tiba Lelnashr wa-Ltawzee wa-Ltaghezat Al-Alamia, Al-Kahera, Misr, Taba Ula 2017.
- Saber Mohamed "Doctor" (Al-Ensan wa-Taloth Albiah) Al-Edara Al-Ama Leltweia Al-Elmia wa-Lnashr, Madinat Al-Malek Abdulaziz Leluloom wa-Ltaknia, Al-Saudia, Taba Ula 2000.
- Jennifer Volintine (the gendered superhero: an examination of masculinities and femininities in modern age) northern Illinois university de Kalb, Illinois, august 2016.
- Ankur Khaled (Al-Masolia Al-Madaniah Al-Motarateba an Al-Taloth Al-Biey Al-KahroMaghnatisi) Magalet Al-Fekh Al-Kanonia, Adad 37, 2015.
- Shanabi Khadoga Al-Hadi (Dor Al-Tarbia Al-Bieia fee Al-Had men Al-Taloth Al-Biey) Dar Rabetat Al-Adab Al-Hadeeth, Magalet Fekr wa-Ebda, Al-Adad 96, October 2015.

- Morkos Saif Sad (Al-Talooth Al-Biey wa-Atharho Al-Nafsia wa-Lsolokia wa-Lzehnia) Magalet Al-Mal wa-Ltegara, Adad 556, Ughostos 2015.
- Al-Ebidi Abeer (Al-Masulia Al-Dawlia An Al-Hawaa Al-Moloth Al-Aber Lelhodod) Magalat Geel Al-Abhath Al-Kanonia Al-Moakama, Al-Adad 37, 2020.
- Zaghari Mohamed Ahmed Fathy (Mada Tatheer Wasaeel Al-Tawasol Al-Egtemai Ala Altaloth Al-Laghawy Lada Tolab Emadat Al-Barameg Al-Tahtiria Begameat Al-Emam Mohamed ben Sood Al-Eslamia men Weghat Natharhom) Al-Magala Al-Dawlia LelDerasat Al-Tarbawia wa-Lnafsia, Al-Mogalad 5, Al-Adad 2, Abril 2019.
- Al-Mostafa Mohamed Walad Abdulah Walad Mohamed (Al-Moshkelat Al-Bieiah Wa-Ltaloth Bemadinat Nwakshoot) Al-Markaz Al-Morotani LelDerasat Wa-Lbohooth Al-Estratigiah, Magalat Derasat Morotaniah, Al-Adad 3, Mares 2014.
- Kassem Mahmoud (Al-Resoom Al-Motahareka: Tekrar Al-Dahsha Bad Al-Sehr) Magalet Khotoa, Al-Magless Al-Aala LelTofola Wa-Ltanmia, Al-Adad 38, Mares 2020.
- Al-Wafi Nori Ebraheem (Al-Ensan wa-Lbiah Derasa fee Al-Ikologia Al-Basharia) Magalat Al-Baheth, Al-Adad 9, 2015.