

STATIONARY ORGANIZER

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ABSTRACT

Recycle, reduce and reuse items is one of the solutions to overcome environmental problems. The concept of 3R can help to prevent any pollution from happening, reduce greenhouse gas emissions and global warming. A stationary organizer is an organizer that is made from boxes, newspapers, and bottles that are no longer used. The main reason for creating the stationery organizer from the reuse items is to reduce the energy that the manufacturer uses to extract the raw materials to make a new product. Other than that, it also can save our money from buying new organizers because we can create our organizer by using reuse items that we have. Therefore, this innovation is hoped to increase people's awareness to always reuse items that are no longer functioned like before and transform them into a new product that can benefit them.

Keywords: reuse items, reduce energy, save money, awareness, global warming

1. INTRODUCTION

One of the biggest problems nowadays is waste management. Waste management can be referred to as various schemes of managing and disposal waste (Biology Online, 2021). It is a process of collecting, transporting, treating, and disposal of waste alongside monitoring and regulating the waste management process and related laws, technologies, and economic mechanisms. Waste can be defined in forms of solid, liquid, and gaseous and each type of waste has a different kind of management. Waste management is to reduce the number of unusable materials and to reduce potential health and environmental hazards that can happen.

Other than that, nowadays there is a lot of dumping waste such as plastic bottles, paper and so on. According to Ahmad, S. (2019), the statistics by Our World in Data (OWD) in 2010 mentioned that global plastic production reached 270 million tons, while the waste output of this material was five million higher at 275 million tons. In addition, according to OWD, eight million tons will flow into the sea through various channels, including those dumped in rivers by irresponsible individuals and another 10,000 to 100,000 tons of garbage left floating on the sea surface.

Therefore, our group has been thinking of creating a stationary organizer made using a recycled product. According to Rinkesh. (2020, August 16) Recycling is the process of converting waste materials into reusable objects to prevent waste of potentially useful materials, reduce the consumption of fresh raw materials, energy usage, air pollution, and water pollution by decreasing the need for "conventional" waste disposal and lowering greenhouse gas emissions compared to plastic production. Therefore, the purpose of the stationery organizer is to help students or people stay organized and avoid misplacing our stationary. Other than that, the benefits of the product is can save money from buying expensive or affordable stationery organizers and instead can DIY it at home. Besides, it also helps in reducing waste as the products used can easily get from purchasing new shoes and bottles at a convenience store.

2. OBJECTIVE

The stationery organizer is created not just to organize the stationery, but it is also to save the environment from any pollution that may come from massive waste disposal. When used materials are being used to make the stationery organizer, waste in landfills can be reduced. Furthermore, it also aims to promote awareness to the society to recycle, reduce and reuse materials that have been used so that it can help to sustain the environment for a longer time. When applying the concept of 3R, natural resources such as water and trees can be conserved. Therefore, by creating a stationery organizer from reused materials, the energy that is required to make a new product from raw materials can be saved and allowed to use the materials to their fullest extent. For example, even though the shoe box is no longer can be used to keep the shoes, it can transform into another function as a stationery organizer.

3. MATERIALS AND METHODS

As our group has been thinking of creating a stationery organizer made using recycled materials. Therefore, the material that we used are newspapers, colour paper, shoe box, water bottles, double tape, stationery, and scissors.



Figure 1. Material Used

Based on the materials we have used, the first step to making a stationery organizer is to wrap the shoe box with coloured paper. Then decorate it with newspaper. The next step is to cut the plastic drink bottle into two parts. Then place the double tape under the bottle and stick the bottle in the box that has been decorated. Finally place all the pens, rulers, pencils, and many more in the organizer.

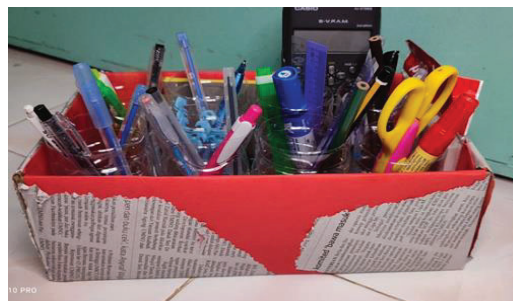


Figure 2. STATIONERY ORGANIZER

4. NOVELTY

This innovative product is different from the other products that available in the market. This is because, these Innovation products are made from recyclable materials such as box, plastic bottles, and paper. These recyclable materials can be found in every one of our homes. In addition, such products are sold in the market but the materials used are not eco-friendly. Besides, the price of this stationary organizer sold in the market is also expensive. Therefore, this innovative idea is very useful as it is an eco-friendly product. As we move towards sustainable development, these products support eco-friendliness and are an integral part of embracing Industry 4.0.

5. APPLICATION

STATIONARY ORGANIZER is introducing a recyclable and affordable product to the public in ways to save the environment. It has been introduced publicly as one of the 'd.i.y' or known as 'do it yourself' products. STATIONARY ORGANIZER is producible due to resources that can be obtained from daily life. This product can be used by different ages of people from kids to adults as an organizer for stationery items. STATIONARY ORGANIZER can be used to store stationeries such as scissors, rulers, markers, and pens. Figure 3 displays the product of the STATIONARY ORGANIZER.



Figure 3. Sample STATIONARY ORGANIZER

6. COMMERCIALISATION

As STATIONARY ORGANIZER was made eco-friendly, it can be commercialized as one of the products that can save the environment. This is because by following the government's policy in National Policy on the Environment (Ministry of Sains, 2017) which is to establish a country through environmentally sound and sustainable development, STATIONARY ORGANIZE were made from reusable and recyclable materials. Other than that, it also can be disposed of safely by either disable the products and dispose them accordingly to the categories of recycling materials. As it can be made and dispose of safely without harm the environment, it can be commercialised widely as an eco-friendly and affordable product.

7. CONCLUSION

The stationery organizer provides a new sight to the society about the importance of applying the concept of 3R which is recycled, reduce and reuse. It also encourages people to always choose eco-friendly products which can maintain the environmental sustainability. Therefore, the stationery organizer can be one of the eco-friendly products, which contributes to preserving the environment, reduce the waste in landfills, and conserve the natural resources of the Earth.

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