

## **3r (Reuse, Reduce, Recycle) Education for Students in Pangauban Village as an Effort to Build Awareness About Waste Management from Early Ages**

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### **ABSTRACT**

In Pangauban Village there is a lot of garbage on the side of the road that accumulates and the majority of the population throws garbage into the Citarum river, causing an unpleasant odor. With this condition, it will certainly cause various problems such as waste problems because it is not managed properly and the behavior of throwing garbage into river areas is imitated by children so that it is considered a normal thing. Therefore, 3R (Reuse, Reduce, Recycle) Education activities were held for Elementary School and PAUD students in Pangauban Village, with the aim of changing mindsets and adding insight into waste management and utilization to foster environmental care characters from an early age. 3R (Reuse, Reduce, Recycle) education is carried out by means of presentations using Power Point, showing animated videos and by bringing samples of types of waste and the work that has been made from waste. After conducting 3R Education (Reuse, Reduce, Recycle) there were some changes that were felt, namely that the majority of students had more understanding and awareness about how to treat waste properly

**Keywords:** 3R (Reuse, Reduce, Recycle) education, early childhood, care for the environment

### **INTRODUCTION**

Plastic waste is a type of waste that has the potential to damage the environment, especially because it takes a very long time to decompose by nature. From time to time, the volume of plastic waste is increasing, environmental conditions are increasingly damaged day by day, awareness of protecting the environment is very important. Likewise with the community and government around Pangauban Village who are less aware of how to process waste so that the local environmental order is not optimal. As a result of the lack of public awareness about how to treat waste, some people throw garbage into the Citarum river area, causing environmental pollution.

The problems in Pangauban Village are dominated by the low awareness of the community and local government for the preservation of nature in the Citarum river area (Fadhil Imansyah, 2012). Realizing the importance of protecting the environment must be carried out through education which aims to build a sustainable society that has an awareness of the importance of the environment (Ria Kurniasari, 2019). Therefore, to increase knowledge about waste management, a Family Empowerment Post program or abbreviated as POSDAYA is held. And one of the work programs carried out is 3R Education (Reuse, Reduce, Recycle).

Based on the Analysis of the Problems above, the Purpose and Benefits of holding community service in Pangauban Village is to provide understanding to the community, especially students in Elementary Schools and PAUD in the Pangauban Village area regarding 3R (Reuse Reduce Recycle) Education. Caring for the environment cannot be obtained instantly, but requires a long process and a relatively long time. Someone will have a caring attitude towards the environment because of habituations that take place continuously and continuously. Caring for the environment that has been instilled from an early age will not easily fade when he grows up (Jayawardana, 2016).

## **RESEARCH METHOD**

The implementation of this community service activity is carried out in Pangauban Village and is a program that places more emphasis on the theme of waste management (Posdaya Thematic). Posdaya thematic is a program to develop the population through family empowerment by stimulating the formation of hospitality and information forums at the village/kelurahan level. The forum is called the Family Empowerment Post or POSDAYA for short.

3R (Reuse Reduce Recycle) education is held at Al-Istiqomah Kindergarten, SDN 1,2 and 3 Cihampeni with the presentation method using Power Point, showing animated videos about 3R education and by bringing samples regarding types of waste and works that have been made from waste, with the aim to show concretely to the students in the school. There is a reward for students who can answer quizzes at the end of the Education program (Reuse Reduce Recycle).

## **RESULT AND DISCUSSION**

After conducting the 3R (Reuse Reduce Recycle) socialization at Al-Istiqomah Kindergarten, SDN 1,2 and 3 Cihampeni there were several changes felt, students were more aware of the importance of disposing of waste in its place, knew more about how to handle waste and finally students students also want to process waste properly. It was proven that at the end of the session the students were very enthusiastic when the quiz questions were asked, they were able to answer and dared to come to the front of the class to answer and give examples regarding waste management.

Students are able to give examples of the application of Reduce by taking samples in front of the class in the form of shopping bags from home to reduce plastic bag waste for shopping goods. As for the application of Reuse, they answered "you can use the leftover paper that is still blank for writing". And for Recycle themselves they gave examples of decorations and pencil cases in their own class, from there they started to get interested in making works from used goods, especially from used plastic goods, because they often buy snacks that are mostly packaged in plastic. The students also realized that this activity was a way of dealing with waste through 3R (Reuse Reduce Recycle). The following is a picture while doing 3R (Reuse Reduce Recycle) Education at Al-Istiqomah Kindergarten and Cihampeni Elementary School in Pangauban Village, Katapang District, Bandung Regency.



Figure 1. 3R Education In Elementary School



Figure 2. 3R Education In PAUD

The existence of waste in society is a classic problem that does not get attention, both from society and the government. Data from the Ministry of Environment in 2012 recorded that an average person produces 2 kilograms of waste per day. Then the waste that will be generated is 500 tons of waste in one day. When there is too much waste, the environment is also polluted, so it is difficult for us to find a healthy environment. A healthy environment is the right of every citizen, in article 65 paragraph 1 of Law number 32 of 2009 concerning the Protection and Management of the Environment reads "everyone has the right to a good and healthy environment as part of human rights". It is clear that in the article above everyone deserves a good and healthy living environment for a better future and also to get more guaranteed health. The environment can be realized, one of which is by realizing good waste management and working together in dealing with it, to make that happen in community service this time carrying out 3R (Reuse Reduce Recycle) socialization to elementary schools and early childhood education in Pangauban Village so that they can get to know them from an early age maybe about Good waste management.

Pangauban Village is a village in Katapang District, Bandung Regency, which is located close to the Citarum River. Pangauban Village is a relatively densely populated area, so that in one day it will produce a lot of waste, as evidenced when you first visited the location, there was still a lot of garbage on the sides. roads are piled up and the majority of residents throw garbage into the Citarum river, causing an unpleasant odor. With this condition, of course, it will cause various problems such as waste problems if not managed properly.

## **CONCLUSION AND SUGGESTION**

The environment can be realized, one of which is by realizing good waste management and working together in overcoming it. To make this happen, 3R (Reuse Reduce Recycle) Education is held for Elementary Schools and Early Childhood Education in Pangauban Village so that they can get to know about waste management as early as possible. the good one.

3R (Reuse Reduce Recycle) education is carried out in Elementary Schools 1,2 and 3 Cihampeni and Al-Istiqomah Kindergarten in Pangauban Village. The socialization went smoothly and the material presented was understandable to students because the material was delivered using animated videos and power points which had been designed to make it easier for children to understand. In addition to clarifying the 3R (Reuse

Reduce Recycle) there are several samples of waste utilization to show. 3R (Reuse Reduce Recycle) education can be said to be successful because it is proven by the students who have been able to answer the quizzes given at the end of the event correctly, they have a better understanding of how to handle waste through 3R (Reuse Reduce Recycle), and they are also very enthusiastic and give a very good response when the activity takes place.

The advice expected is that 3R Education (Reuse Reduce Recycle) can have a wider reach, not only implemented among students but can be implemented among the wider community in Pangauban Village so that this waste handling can be carried out optimally and in mutual cooperation, so that the problem of dealing with waste this little by little can be completed.

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