



PROJECT WAR ON WASTE (WOW): INPUT FOR AN ACTION PLAN

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INTRODUCTION

Nowadays, the world is facing environmental problems caused by improper waste disposal. People have not realized the possible result of their actions on the environment as well as on health. We are suffering environmental dilemma's such as global warming due to greenhouse gasses coming from decomposed waste, bad odors, visual pollution, air pollution, soil and water contamination, proliferation of mosquitos and flies and others. Waste is considered as one of the main causes of spread of diseases, damage to nature, animal extinction and death.

A lot of programs where been implemented to lessen the problem on waste, still this dilemma would not able to solve because of the personalities in the community and the continuous growing of population. In order to educate the community on proper waste management, television, radio, internet and newspaper were used as a channel of information. Disasters and calamities happened in the community becomes the reflection of what people done in the environment. But still, people ignore it; they keep throwing their garbage anywhere instead of segregating their waste and dispose them correctly. (Og-oget, Community Reflection 2014)

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In the Philippines, waste generation continues to rise with the increase in the population, improvement of living standards, rapid economic growth, and industrialization especially in the urban areas. The National Capital Region (NCR), as expected, generated the biggest volume of wastes for the past five years due to its population size, bigger number of establishments and modernized lifestyle. With an estimated population of 12 million people, Metropolitan Manila generated 9,212.92 tons per day of wastes in 2016. It is followed by Region 4A with waste generation of 4,440.15 tons per day (11.08%) and Region 3 with 3,890.12 tons per day (9.70%). Solid waste management remains a major challenge in the Philippines especially in urban areas like Metro Manila. Improper waste disposal, inefficient waste collection and lack of disposal facilities are among the dominant concerns in the country's solid waste management.

Republic Act No. 9003, otherwise known as "Ecological Solid Waste Management Act of 2000, enacted on January 26, 2001, aims to address the growing problem on wastes in the country. It provides legal framework for the country's systematic, comprehensive, and ecological solid waste management program that shall ensure protection of public health and the government. It also provides for the necessary institutional mechanisms with the creation of the National Solid Waste Management Commission (NSWMC) which shall oversee the implementation of solid waste management plans and prescribe policies as well as incentives to achieve objectives of the Act. To strengthen compliance with RA 9003, and overcoming the challenges, LGU's should capacitated particularly on understanding the provision of the Act and formulating SWM plans.

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They assisted in designing innovative financing mechanism to undertake SWM activities instead of merely depending on subsidies from national government. They should also be given assistance on how to access facilities offered by government financing institution (GFIs) and in engaging the private sector in order to generate funds for SWM activities. There must be continuing education and public awareness building to inculcate the right attitude among people to actively participate in SWM activities and practices. Hence the integration of Ecological Solid Waste Management (ESWM) in curricula at all level in the school (Senate Economic Planning Office 2017).

In relevance to this, discussion above supports the idea of the problem of the people in the South rural areas of the country. In Batangas, The enactment of the Ecological Solid Waste management Act prompted higher education institutions including state universities and colleges (SUCs) to incorporate ecological waste management in the school system. (Gequinto, 2017)

In addition, the issue mentioned above supports the idea of the problem of the people in the South rural areas of the country. In Batangas, Provincial Solid Waste Management Plan identified the municipalities that who are the biggest generator of waste in the province. Lipa City was the biggest generator of waste with 160,000 kilos per day in 2014 to 2015, next was Nasugbu generating 53,357.12 kilos. However, the province Environment and Natural Resources Office has already developed a ten-year solid waste management plan, but the officials and resident's lack

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of discipline and cooperation, as well as challenges that barangay officials face in solid waste management, are major issues. (Luistro, 2017)

Wastes are any discarded, rejected, abandoned, unwanted or surplus matter, whether or not intended for sale or for recycling, reprocessing, recovery or purification by separate operation from what produced the matter (Environment Protection Regulations, 2009)

Project WOW (War On Waste) encompasses all the collection, transport, processing and disposal of wastes materials to reduce the impact of waste on the environment and recovering the resources from wastes materials. In addition, Project WOW involves reusing, recycling, and recovery of wastes materials in order to enhance the current situation on wastes disposal.

On the other hand, the present situation of Nasugbu West Central School, the researcher found out that the general and consolidated verbal responses of respondents in her study showed agree on awareness on waste segregation, the researcher's attention is to have a larger scope of study targeting one hundred percent 100% of pupil's full awareness on waste segregation.

In light of this, the researcher aims to encourage schools or academic institutions to be more actively involved in environmental issues at practical and local level and develop positive behavior and understanding among pupils, faculty and school administrators in initiating active responses and increasing awareness and participation in environmental concerns particular to

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waste management practices. As such, full implementation of proper waste segregation in the school must be mandated.

LITERATURE REVIEW

Ogoc and Martines (2014) proposed a School-Based Ecological Solid Waste Management Plan that can be used as a model for schools' strict implementation of an Ecological Solid Waste Management system and instill a true sense of participation and cooperation in the implementation of RA 9003, "The Ecological Solid Waste Management Act of 2000". The objectives of this plans are to build a common and more profound understanding on the current solid waste situation in the university, to inform and educate people and implement proper segregation of waste, recyclables and biodegradable, to realize the serious and adverse effects of poor SWM, to obtain information on the various good practices in SWM that will lead to a sound decision in prioritizing local actions, adopt ESWM ordinances and its implementing rules and regulations, and To produce a simple ready to use IEC materials (pamphlets) for distribution.

EcoWaste Coalition (2015) called for the proper waste management to beat the dengue menace, with the participation of local government and the general public they advocates to embrace the ecological solid waste management as a practical strategy to address the dengue scourge. In order to keep the household and community free of dengue vectors, the EcoWaste

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Coalition urged the public to observe the following practical tips such as check their backyard regularly for water filled containers, remove trash that can collect and hold water, recycle or dispose of water holding containers that are not needed, cover buckets, drums, and tanks with lids, empty and clean water containers thoroughly once a week, change water flower vases weekly, remove water from plates under potted plants weekly, clear rain gutters of leaves and other debris, and puncture or cut old rubber tires used as roof support.

National Solid Waste Management Commission (2018) provides nationwide clean-up activities to promote cleanliness in coastal, inland waterways, esteros, creeks, public places, roads and major throughfares, and

incourage volunteerism and foster the participation of all sector to include government, NGOs/civil society groups, schools, churches and the private sector. As well as to encourage proper waste management by communities or barangays.

Department of Environment and Natural Resources (2012) together with Interior and local government and education secretary entered a memorandum of agreement with non-government organization Galing Pook Foundation, Inc. (GPF) for the implementation of the National Ecosavers Program or NEP. Under the new program, the students are enjoined to collect and segregate recyclable materials from their respective households and bring them to their schools where these are pooled for final collection by accredited junk shop or recyclers. In furthering the ecological

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solid waste management program for Metro Manila, DepEd records indicate that there are more than 1.2 million pupils currently enrolled in 517 public elementary schools, and some 674, 237 students in 246 secondary schools in Metro Manila.

De Castro (2017) stated that San Fernando, Pampanga is known locally and internationally, as one of the pioneers in zero waste. The city's public and private schools have been actively implementing zero waste projects thus, making them a huge part in the city's success.

Larracas (2012) stated that Alaminos is the home of the most popular tourist destination in the province and the first national park in the country, Hundred Islands National Park, widely known for its beautiful beaches and abundant wildlife, the park attracts more than 160,000 visitors a year and generates hundreds of jobs and millions of Philippine pesos in revenue for the city. On the other hand, the majority of the waste produced in Alaminos has consisted of biodegradable or compostable materials but, as is typical for a fast developing city, non-biodegradable packaging and products have become a part of everyday life. Also, a comprehensive survey was administered to assess and record the existing waste management practices throughout Alaminos. At the end of the Zero Waste Alaminos project, a second comprehensive survey was administered to evaluate the implementation of the management programs developed through the course of the project. The survey targeted 10 percent of the population in Alaminos and revealed both positive and negative results. A high percentage of

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residents were practicing waste separation and composting, and many said they knew about their village's waste management program and the national law. On the other hand, some residents said that the information they received from barangay officials about waste management was not enough, and there were those who were not participating in the program because they felt it was too cumbersome. Although implementation of waste management programs has increased in the barangays, much more needs to be done.

RESEARCH QUESTIONS

This study aimed to identify the level of awareness of intermediate pupils in Nasugbu West Central School on the importance of waste segregation.

Specifically, the study sought answer to the following questions:

1. What is the level of awareness of pupils on Project WOW based on the importance of waste segregation in terms of discipline?
 - 2.1. discipline; and
 - 2.2. attitude?
2. What is the level of awareness of pupils on Project WOW based on the importance of waste segregation in terms of attitude?

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3. Is there a significant relationship between the discipline and attitude of respondents regarding Project WOW based on waste segregation?

4. What proposed action plan can be designed by the researcher to improve the level of awareness of pupils regarding Project WOW based on waste segregation?

SCOPE AND LIMITATION

This study was focused on the Project WOW employed by the school in Nasugbu West Central School Nasugbu, Batangas for the school year 2022-2023.

This study focused on the perception of the respondents on the Project WOW based on discipline and attitude. It also determined the significant relationship between the assessment of the respondents in Project WOW based on the pupils' discipline and attitude. Together with the findings of the study, a proposed action plan was made as the final output of this research study.

RESEARCH METHODOLOGY

A. Participants and Other Sources of Data and Information/ Sampling

Research Method Used

The study utilized the descriptive method of the research which used questionnaires in gathering the necessary data. Descriptive method was used in this study to create an adequate

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interpretation on the perceptions on Project WOW on the importance of waste segregation in terms of discipline and attitude of pupils in Nasugbu West Central School, Nasugbu, Batangas.

The descriptive design was focused on the interpretation of the significant relationship between the responses of the respondents regarding their awareness on the importance of proper waste segregation.

As cited by Creswell (2016), it aimed to describe and measure the relationship between two or more variables. The correlational approach was determined whether a significant relationship existed between the variables or when their subcomponents were taken individually.

Respondents of the Study

The respondents of the study were Three Hundred twenty-two (322) intermediate pupils from grades 4 to 6 from the locale of the study. The respondents were selected from the population of the said district. Purposive sampling was used using the criteria: must be intermediate pupils, and must be enrolled in the school year 2022-2023.

Research Instrument

The main research instrument of this study was the questionnaire. The questionnaire has two (2) parts. Part I was the questionnaire regarding the perception o Project Wow based on discipline Part II was based on attitude. To measure the awareness of the respondents Project

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WOW based on waste segregation in terms of discipline the indicators ranged from 1-5, with five (5) corresponds to Highly discipline, four (4) – Very much discipline, three (3) – Moderately discipline, two (2) Fairly discipline, and on (1) – Not discipline. Same instrument was used to measure the awareness of the respondents on waste segregation in terms of attitude. The indicators ranged from 1-5, with five (5) – Strongly Agree, four (4) – Agree, three (3) – Uncertain, two (2)- Disagree, and one (1) – Strongly Disagree.

B. DATA COLLECTION

The researcher asked permission from the Principal, Parents and Pupils of Nasugbu West Central School. Upon the permission, the questionnaire was distributed by the researcher personally to the pupils with a total of three hundred twenty-two (322) pupil respondents. Direction and questions clearly explained to the respondents using vernacular language.

The questionnaires were retrieved by the researcher personally and the data gathered were tallied, organized, tabulated, analyzed and interpreted using appropriate statistical tools.

Data Analysis

The data were analyzed based on the research questions provided by the researcher. The researcher consulted an statistician to check the computations made by the researcher.

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Statistical Treatment of Data

To process the data, the researcher used Statistical Package Program

Problem 1. Perception on the Project WOW based on the importance of waste segregation in terms of discipline.

2.1 Weighted Mean and Ranking were used to compute for the typically of the responses choosen from the Likert Scale.

2.2 Ranking was used to find out the degree of importance of responses on items in the Lickert scale.

Problem 2. Perception on the Project WOW based on the importance of waste segregation in terms of attitude.

2.1 Weighted Mean and Ranking were used to compute for the typically of the responses choosen from the Likert Scale.

2.2 Ranking was used to find out the degree of importance of responses on items in the Lickert scale.

Problem 3. Significant Relationship in the responses of the respondents regarding Project WOW based on waste segregation.

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3.1 Pearson Product Moment Correlation Coefficient was utilized to determine the significant relationship in the responses of respondents regarding their Project WOW based on the awareness on waste segregation.

Ethical Issues

According to Jones (2014), ethical consideration abounds within the data collection process. The researcher considered any ethical issues affecting the respondents. All the pertinent information regarding the subject was treated with confidentiality. Authors and sources in the related literature and studies were carefully cited. Most importantly, the data presented were derived from the actual results of the survey personally conducted by the researcher.

DISCUSSION OF RESULTS AND RECOMMENDATION

1. Level of Awareness of Pupils in the Importance of Project WOW based on Waste Segregation (Discipline)

Table 1
Level of Awareness of Pupils in the Importance of Waste Segregation in Terms of Discipline

Items	Weighted Mean	Verbal Interpretation	Rank
1. I properly dispose my waste materials.	3.20	Moderately Agree	6
2. I recycled some waste materials and reuse them.	3.23	Moderately Agree	4.5
3. I put my waste materials on proper trash bins	2.82	Moderately Agree	11
4. I pick up waste materials in			

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classrooms, corridors, pathways or anywhere I pass.	2.23	Disagree	16
5. I discourage my classmate from throwing waste materials on the ground.	2.98	Moderately Agree	8
6. I do not throw waste on the ground.	2.73	Moderately Agree	12
7. I need to put food waste materials in the trash bin labelled with Biodegradable.	2.95	Moderately Agree	9
8. I put empty bottles on the trash bins labelled with Recyclables.	3.07	Moderately Agree	7
9. I follow the rules on waste segregation inside the classroom.	2.88	Moderately Agree	10
10. I apply proper waste segregation in our home that had been taught in the school.	2.68	Moderately Agree	13
11. I encourage my family to practice proper waste segregation.	2.42	Disagree	15
12. I put my waste materials inside my bag or pocket when there is no available trash bins in the school.	3.87	Agree	1
13. I helped my classmate in cleaning our surroundings.	3.65	Agree	2
14. I discuss with my classmate the effect of throwing garbage on the ground.	2.52	Moderately Agree	14
15. I used recyclable materials in making school project instead of buying new one.	3.33	Moderately Agree	3
16. I help my classmate in collecting waste materials in every classroom.	3.23	Moderately Agree	4.5
Composite Mean	2.99	Agree	

Table 1 reflects that pupils agree to put their waste materials inside their bag when there is no available trash bins in the school with weighted mean of 3.87 and ranks first. This shows that pupils have concern and knowledge on proper waste disposal. They agree to help

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their classmates in cleaning the surrounding with weighted mean of 3.65 and ranks second. This implies that pupils voluntarily help their classmate in cleaning the surrounding. They moderately agree to use recycled materials in their project instead of buying new one with weighted mean of 3.33 and ranks third. This shows that pupils creativity and positive attitude towards recycling. Last in the rank is that pupils disagree to pick up waste materials in classroom, corridors, and pathways or anywhere they pass with weighted mean of 2.23. This only proves that pupils do not mind scattered waste and do not want to pick them to put in a proper trash bins.

Overall result shows that the pupils agree with the composite mean of 2.99. This explains that the pupils has a positive attitude toward the importance of waste segregation in terms of discipline.

1. Level of Awareness of Pupils in the Importance of Project WOW based on Waste Segregation (Attitude)

Table 2
Level of Awareness of Pupils in the Importance of Waste Segregation in Terms of Attitude

Items	Weighted Mean	Verbal Interpretation	Rank
1.I know that the school waste education and campaigning program is an effective tool to help pupils become aware on the importance of waste			

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segregation.	3.42	Moderately Agree	
12			
2. I know that prevention, reduction, recycling and reusing of non bio- degradable materials is one of the effective way to lessen solid waste materials.	3.28	Moderately Agree	13.5
3. I understand that improper waste disposal can cause harmful effect on the environment.	3.45	Moderately Agree	10.5
4. I understand that proper labelled trash bins encourage pupils to know proper waste segregation.	3.67	Agree	2
5. I understand that burning waste can contaminate the air.	3.55	Agree	5.5
6. I understand that burial of waste can contaminates water.	3.28	Moderately Agree	13.5
7. I understand that bio degradable waste materials can be use as fertilizer.	3.73	Agree	1
8. I understand that imposing rules and regulations on waste segregation and monitoring leads to successful waste management.	3.45	Moderate Agree	10.5
9. I understand that discipline regarding proper waste disposal must be observe by the pupils.	3.53	Agree	7.5
10. I need to help in saving our Mother Earth through segregating waste materials.	3.55	Agree	5.5
11. I can become responsible citizen, If I follow school rules and regulations regarding proper waste disposal.	3.50	Agree	9
12. I understand that every individual must be responsible in maintaining cleanliness to lessen solid waste materials.	3.53	Agree	7.5
13. I understand that school and the community must have their strong cooperation regarding solid waste management.	3.58	Agree	4
14. I understand that implementation of programs and projects regarding waste disposal and proper waste segregation can leads to free- waste environment.	3.62	Agree	3
Composite Mean	3.51	Agree	

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Table 2 displays that the pupil agree that they understand that biodegradable materials that can be used as fertilizer with weighted mean of 3.73. This shows that pupils have the knowledge on how to make fertilizer from biodegradable materials because they learned it from their EPP subject. They agree that proper labelled trash bins encourage pupils to know proper waste segregation with weighted mean of 3.67 and ranks second. This means that pupils know how to segregate their waste and where to dispose their waste upon seeing the label on the trash bins. They agree that implementation of programs and projects regarding waste disposal and proper waste segregation can lead to free waste environment with weighted mean of 3.62 and ranks third. This further explains that school should launch some innovative project or program with regards to waste segregation and proper waste disposal in order to maintain clean environment. Last in the rank is that they moderately agree that prevention, reduction, recycling and reusing of non-biodegradable materials is one of the effective ways on how to lessen solid waste materials and they also understand that burial of waste contaminates water, both with weighted mean of 3.28. This shows that pupils are aware that this ways can be useful to maintain clean and order environment and they can acquire knowledge on how to use improvised materials coming from recycled materials at home and in the school. Proper education on proper waste segregation and proper waste disposal practices to our pupils leads them to have positive attitudes towards environmental conservation.

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Overall result shows that level of awareness of pupils in the importance of waste segregation in terms of their attitude is Agreed with a composite mean of 3.51.

3. Significant Difference between the Discipline and Attitude of Respondents Regarding Waste Segregation

Table 3
Significant Difference between the Discipline and Attitude of Respondents Regarding Waste Segregation

Variables	p-Value	Interpretation	Decision on Ho
Discipline	0.001	Significant	Fail to Reject Ho
Attitude			

Level of Significance at < 0.05

Based on Table 3 there is a significant relationship between the responses of respondents in terms of discipline and attitude of respondents regarding waste segregation.

The data reflects the p-value of 0.001 which is lesser than 0.05 level of significance have revealed that there is a significant relationship between respondents' awareness on Project WOW

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based on waste segregation in terms of discipline and attitude. It indicates that the null hypothesis is failed to reject.

These findings can be proven from the previous tables presented. As what have been found out, pupils' respondents agree on the importance of waste segregation in terms of discipline and attitude.

5. Proposed action plan designed to improve the level of awareness of

Intermediate pupils on Project WOW based on waste segregation.

PROPOSED ACTION PLAN TO IMPROVE THE LEVEL OF AWARENESS ON PROJECT WOW OF THE INTERMEDIATE PUPILS ON WASTE SEGREGATION

Areas of Concern	Objectives	Strategies	Persons Involved	Time Frame	Resources	Success Indicator
	a.To improve pupil's discipline towards waste segregation.	Conduct program or activities that will participate by students , teachers, community and LGU	School Principal Teachers Students Parents LGU	Year Round	School and Teachers' Resources	Enhanced pupils awareness towards environmental concern
	b. Identify the different response team in School	Organization of School Waste Management Committee	Teachers, School Head, Stakeholder, PTA	Year Round	School and Teachers' Resources	Organized School Waste Management team

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Discipline	Waste Management Team					
	c. Create and implement school rules and regulations pertaining to proper waste segregation	Constant monitoring and evaluation	Teachers, School Head, Stakeholder PTA	Year Round	School and Teachers' Resources	Clean and ordely surroundings
Attitude	a.To develop pupils positive attitude towards waste segregation	Integation of the importance of waste segregation in some learning areas	School Principal Teachers Students	Year Round	School Teacher's Resources	Well improved attitude of pupils towards waste segregation and environmental conservation
	b.Quarterly evaluation of School Waste Management	Search for Best School Waste Management Implementer	School Principal Teachers Students	Year Round	School and Teachers' Resources	100% Success of School Waste Management Program

Conclusions

In the light of the aforesaid summary of findings, the following conclusion were drawn.

1. The respondents agree on the importance of Project WOW based on waste segregation in terms of discipline .

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2. The respondents agree on the importance of Project WOW based on waste segregation in terms of attitude.

3. There is a significant relationship between the respondents' awareness on discipline and attitude on Project WOW based on waste segregation

4. The proposed action plan is designed to improve the level of awareness of pupils on Project WOW based on waste segregation.

Recommendation:

Based on the findings and conclusions drawn from the study, the following recommendations are hereby endorsed:

1. The school should exhibit programs or activities pertaining to waste management that will enhance pupil's positive perspective towards waste segregation and it should be done based on their age and gender.

2. The school in coordination with the Local Government Unit (LGU) through the participation of Municipal Environment and Natural Resources Office must conduct symposium on proper waste segregation with the pupils and parents to ensure that proper attitude and discipline in waste segregation and waste disposal practices should maintained and reinforced not only in the school but also in the community

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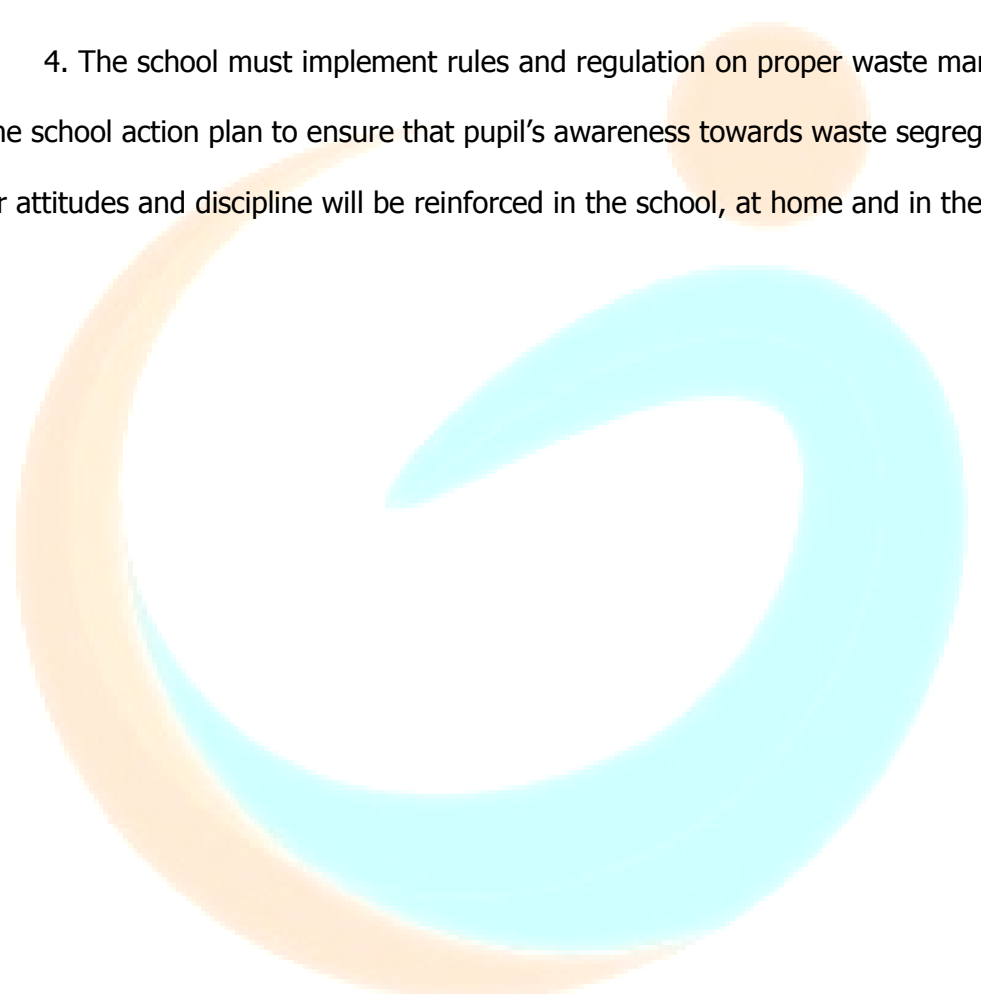
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3. Wider information dissemination of programs and activity regarding waste management for both male and female pupils appropriate to their age and gender will help teachers strengthen pupil's awareness on the importance of waste segregation to achieve a clean and orderly surrounding.

4. The school must implement rules and regulation on proper waste management stated in the school action plan to ensure that pupil's awareness towards waste segregation in terms of their attitudes and discipline will be reinforced in the school, at home and in the community.



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