

Adiwiyata Program Reduced Activities in Training Mi Khadijah Students' Responsibility Skills in Malang City

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Abstract

This research focuses on analyzing the implementation of the Adiwiyata program, specifically the "reduce" activities, in training students' responsibility skills at MI Khadijah Kota Malang. This research uses a quantitative approach with a case study method, collecting data through observation, interviews, and documentation. The research results show that the 'reduce' program successfully increased students' awareness of the importance of reducing plastic waste and single-use items. Students were involved in various activities such as bringing Tumblrs, sorting waste, and utilizing waste banks. This not only fosters an attitude of environmental care but also trains students' responsibility towards the environment. However, some students still lack awareness of the environment by using single-use bottles. This program provides significant benefits in creating a cleaner, healthier school environment and in building responsible character among students.

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1. INTRODUCTION

The Indonesian government has regulations regarding the environment which are regulated in (*Law of the Republic of Indonesia Number 32 of 2009 concerning Environmental Protection and Management*, 2009). Article 1 explains that environmental protection and management is a series of efforts carried out in a systematic and integrated manner to preserve environmental functions, prevent pollution and prevent environmental damage. These efforts include planning, utilization, control, maintenance, supervision, and law enforcement. (*Regulation of the Minister of Environment and Forestry of the Republic of Indonesia Number P.52/MENLHK/SETJEN/KUM.1/9/2019 concerning the Environmental Care and Culture Movement in Schools*, n.d.) in Article 1 paragraph 2, the Environmental Care and Culture movement (PBLHS) is defined as an initiative carried out by schools with awareness, voluntarily, connected in a network, and continuously to implement environmentally friendly behavior. Meanwhile, Article 1 paragraph 14 explains that Adiwiyata is an award given by the government, both at the central, provincial and district/city levels, to schools that have successfully implemented environmental care and culture movements.

Environmental education in Indonesia is increasingly receiving serious attention, especially in the context of character building of students at the basic education level. One initiative that supports this goal is the Adiwiyata Program. This program is a national initiative that aims to create and realize schools with environmental awareness and culture. This program encourages active participation of all school members in environmental conservation efforts through education and real implementation in daily life (Ministry of Environment and Forestry, 2023).

MI Khadijah Malang City, as one of the educational institutions implementing this program, succeeded in winning the title of Adiwiyata School at Malang City Level in 2023. This award reflects the school's commitment to including environmental values in the curriculum and students' daily activities. The assessment criteria for obtaining the Adiwiyata title include several important aspects, including good environmental management, active participation of students in environmental activities, and the creation of a culture of environmental care in schools. MI Khadijah has demonstrated significant achievements in meeting these criteria, such as effective waste management, reforestation activities, and environmental education programs involving all school residents (Malang City Government, 2023).

Through the Adiwiyata program, MI Khadijah focuses on the physical aspects of the environment and seeks to train students' responsibility skills. The activities carried out, such as cleanliness campaigns, waste management and reforestation, aim to build students' sense of care and responsibility for the environment. With this approach, it is hoped that students can realize the importance of their role in preserving the environment, which is an integral part of character education (Supriyadi, 2023).

This article will discuss in detail the implementation of the Adiwiyata program at MI Khadijah Malang City, with a focus on activities designed to train students' responsibility skills. Apart from that, this article will also explore the impact of the program on student character development, as well as the challenges faced in its implementation. Thus, it is hoped that this article can contribute to the development of environmental education in Indonesia, as well as become a reference for other schools that wish to implement similar programs (Rahayu, 2023).

2. RESEARCH METHOD

This research uses a qualitative approach with a case study method, which aims to explore the implementation of the Adiwiyata program, especially the "Kurangi" activity which aims to train students' responsibility skills at MI Khadijah, Malang City. The focus of the research is to analyze the implementation of the program and evaluate its impact on student culture and behavior at school. Data collection was carried out through in-depth interviews, non-participant observation, and documentation. Structured interviews use the same list of questions for all respondents. The respondents consisted of the Adiwiyata program coordinator teacher and MI Khadijah Environmental Ambassador, namely two grade 5 students and two grade 6 students. Observations were carried out without direct involvement from the researcher in the daily activities of the research subjects. Documentary data collection was collected from official documents such as annual reports and social media publications of MI Khadijah Malang City. The research flow is presented in the form of relevant images.

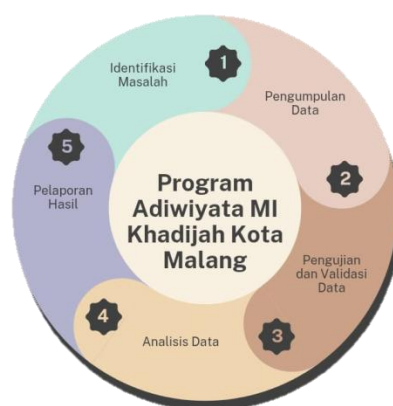


Figure 1 Research Flow

The data obtained will be validated using source and method triangulation techniques, which is very important in case studies because it can ensure the accuracy of data from various

perspectives, reduce bias, and strengthen the validity of research results through comparison data from interviews, observations, and documentation. This triangulation helps reduce bias and strengthens the validity of findings by comparing data from interviews, observations, and documentation (Creswell, 2016). This approach ensures that all data obtained mutually support each other.

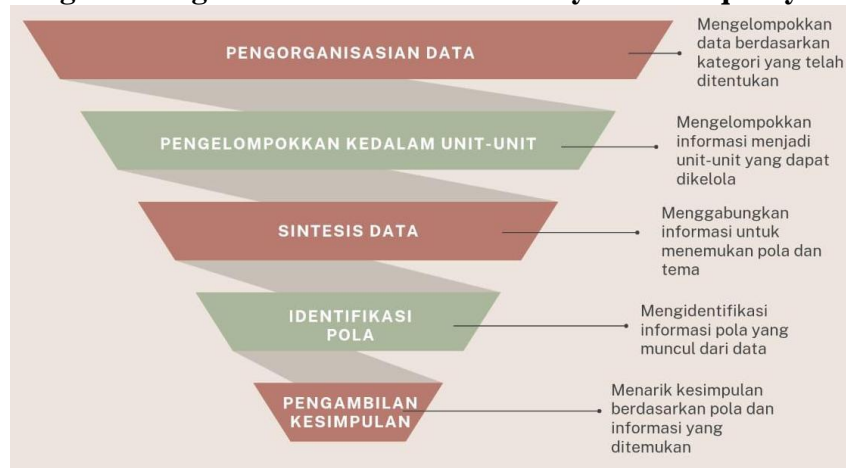
The data analysis was carried out by referring to the theory of Bogdan and Biklen (1982). The analysis process involves organizing data, grouping it into units that are easy to manage, synthesizing data, identifying patterns, determining important things, and drawing conclusions to compile information that can be conveyed to the public. Data analysis stages include (Fadjarajani et al., 2020):

- a. Determine the focus or main topic of research.
- b. Compile initial results or information from previously obtained data.
- c. Make a plan to collect additional data based on the results already found.
- d. Develop more in-depth or specific questions to support the next stage of data collection.
- e. Determine subsequent targets or data sources, including interviewees, specific conditions, or relevant documents.

Table 1 Data Collection Stages

Research Stage	Data Collection Techniques	The output obtained	Purpose of Data Collection
Identification of problems	Document study, initial interviews	Research focus	Identify issues and research needs
Data collection	Interviews, observations, documentation	Primary and secondary data	Collect information from various sources for analysis
Data testing	Triangulation of sources and techniques	Validated data	Ensure data accuracy and consistency
Data analysis	Data organizing, grouping into unit-unit, data synthesis, pattern identification, and conclusion drawing	Organized information	Process data to find patterns and conclusions

Figure 2 Bogdan and Biklen's data analysis technique cycle



3. RESEARCH RESULTS AND DISCUSSION

3.1. Research result

Results of interviews with Adiwiyata coordinator teachers MI Khadijah Malang City as follows.

He	Respondent Statement	Conclusion
Adiwiyata Program	MI Khadijah Malang City has held the title of Adiwiyata School since 2023 with the title of Adiwiyata school at city level and is currently preparing for the provincial level.	MI Khadijah has the status of a city level adiwiyata school and is currently preparing for the provincial level.
The role of the school community	It is not only teachers who play an active role in the adiwiyata program but all school residents, such as students, staff, parents, committees, and street vendors.	The Adiwiyata program involves all school members and the surrounding community.
Character formation	Schools must be adiwiyata because they are a place to form children's character from an early age to care about the environment, save resources, and reduce the risk of environmental impacts.	The Adiwiyata program aims to form an environmentally caring character and reduce environmental impacts in schools.
Kegiatan 3R	Efforts to maximize the use of goods so that they are not easily turned into waste, such as using tumblers and using used goods for other purposes.	MMI Khadijah applies principles of Reduce by getting students used to using tumblers and using used items.

Results of interviews with Environmental Ambassadors grades 5 and 6 MI Khadijah Malang City as follows.

He	Respondent Statement	Conclusion
Definition of the Adiwiyata Program	The Adiwiyata program is a program to reduce waste and prevent the habit of littering.	The Adiwiyata program focuses on waste management and maintaining a clean environment.
Draft <i>Reduce</i> (reduce)	Reduce the use of unnecessary things, such as replacing plastic bags with bags that can be used repeatedly.	Reduce the use of goods disposable to reduce the amount of waste production.
Adiwiyata program objectives	The aim of this program is to prevent students from throwing rubbish carelessly.	The Adiwiyata program aims to instill a character in students who care about the environment.
Focus on reducing waste	Reduce the use of plastic such as using tumblers for drinking	The main focus of the program is reducing plastic waste.
The importance of the adiwiyata program	The importance of the adiwiyata program is to protect the environment.	This program aims to maintain cleanliness and environmental sustainability.

Based on the results of interviews with MI Khadijah Malang City teachers, this school has succeeded in holding the title **City Level Adiwiyata School** since 2023. Currently, MI Khadijah is preparing to upgrade to status **Provincial Level Adiwiyata School** by submitting an application **Provincial Adiwiyata School Checklist (CSAP)** to the Environmental Service (DLH). This process is targeted to be completed by the end of January 2025 with the hope that the school can pass the selection at the provincial level.

The success of the Adiwiyata program at MI Khadijah is not only due to the role of teachers, but involves the entire school community, including students, staff, parents, school committee, and the surrounding community. As many as 20% of students at MI Khadijah are directly involved as Adiwiyata cadres. They are on duty campaigning for a culture of environmental care in the school and surrounding areas. Adiwiyata cadres (Ambassadors Environment) consists of 2 people Of each class, starting from class 1 to class 6. Environmental ambassadors for class 5 and 6 also believe that the reduce program is an activity to reduce waste and prevent the habit of littering. They argue that an example of a reduction activity carried out at MI Khadijah is bringing water tumblers to minimize the use of plastic bottles.

Apart from that, active participation from local communities, such as street vendors, is also strongly encouraged to maintain environmental cleanliness and carry out waste management. In its implementation, MI Khadijah invites school residents to sort and process waste properly, such as reprocessing used goods into something that has use value, in order to reduce negative impacts on the environment.

3.2. Discussion

The Adiwiyata program is the result of collaboration between the Ministries Education and Culture with the Ministry of the Environment. Based on the Regulation of the Minister of Environment of the Republic of Indonesia Number 5 of 2013 concerning the implementation of the Adiwiyata Program, this program aims to create schools that care about the environment and implement an environmentally friendly culture. The Adiwiyata program

was created to create a school atmosphere that supports teaching and learning activities and increases awareness of all school members, including teachers, students and staff, of the importance of protecting the environment.

This program is realized through four main efforts, namely: (1) preparing school policies that support environmental awareness and implementing an environmentally friendly culture, (2) preparing a curriculum that is integrated with environmental values, (3) implementing environmentally based activities that involve participation being active throughout the school community, and (4) managing facilities that support the creation of an environmentally friendly culture in the school environment.

The Adiwiyata program implemented at MI Khadijah is in line with the concept **Green School**, namely schools that apply a culture of environmental care by reducing the use of natural resources and energy. The implementation of this program aims to shape students' character so that they care about environmental sustainability from an early age. This character formation has an important role because schools are the right place to instill the values of caring for the environment in the younger generation.

Several Adiwiyata activities are taking place at MI Khadijah Malang City is :

- a. Caring for plants
- b. Make liquid organic fertilizer
- c. Paint a gallon into a flower vase
- d. Planting and harvesting compost
- e. Trash comb
- f. Tree distribution
- g. Plant a million trees
- h. *World clean up day*
- i. Harvest the work of used bottle sprouts
- j. Plant fruit trees believe
- k. Waste-free campaign
- l. Planting tomatoes
- m. Making eco enzymes
- n. TASRIKH (Trash Savings for MI Khadijah Student Achievement)
- o. Trash alms
- p. Organic friend composter
- q. Reduce, manage and save

Based on several Adiwiyata activities at MI Khadijah Malang City, researchers focused on the "Reduce" activity. Reducing activities are an effort to reduce the amount of waste produced by schools, especially plastic waste and organic waste. This activity includes various efforts aimed at reducing the use of single-use items while encouraging the adoption of a more environmentally friendly lifestyle.

MI Khadijah has carried out various activities to support the Adiwiyata program, one of which is through concept implementation *Reduce*, namely efforts to reduce waste production by maximizing the use of goods that are still suitable for use. Examples of implementation are:

- a. Use of Tumblers
Students are accustomed to bringing tumblers or refillable drinking bottles to school. The aim of this is to reduce the use of single-use plastic bottles which can increase the volume of waste.
- b. Utilization of Used Goods
Used items, such as plastic drink bottles, are reused into useful items, for example flower vases and media for vertical gardens. This activity not only reduces waste, but also instills creativity and environmental care in students.

Implementing the 3R concept (Reduce, Reuse, Recycle) at MI Khadijah is one of the main strategies in the Adiwiyata program. This activity is expected to be able to shape students' mindsets and habits to care more about the environment, both inside and outside the school environment.

Based on an interview with the Adiwiyata coordinating teacher, one of the first steps taken to implement reduction activities was to educate students about the importance of reducing the use of plastic and items that are not environmentally friendly. Through this activity, students are invited to bring supplies from home using reusable containers, such as lunch boxes and drinking bottles. This not only helps reduce plastic waste, but also teaches students to be more environmentally responsible. Implementation of "reduce" activities involves all parties, including cadres, environmental ambassadors, madrasah heads, teachers and student parents. Collaboration between all parties can create a good environmental culture and teach children the importance of managing waste well.

The statement above is in line with the opinions of several grade 5 students at MI Khadijah who are also environmental ambassadors at MI Khadijah. They argue that an example of a reduction activity carried out at MI Khadijah is bringing water tumblers to minimize the use of plastic bottles. However, there are still some who use plastic bottles every day. MI Khadijah has a special rubbish bin for throwing away plastic bottles. The unique shape of the rubbish bin is a large love bin which is located outside next to the office and in the back garden. Plastic bottles at MI Khadijah school will be sorted according to their shape, such as bottle caps, bottle cap rings, and parts of the bottles themselves, while the plastic will be thrown away. The plastic bottles will be deposited into the "Trash Bank" when a large number have been collected. The sorted plastic bottles will be crushed first before being deposited in the waste bank. By involving students in these activities, they not only learn about the importance of reducing waste, but can also develop responsibility skills that will be useful in everyday life.

Based on an interview with MI Khadijah's environmental ambassador, Malang City, it can be concluded that many MI Khadijah students use tumblers to bring lunch from home, and for students who buy bottled mineral water, the waste bottles have been thrown away in the right place. This shows increasing awareness among students regarding the importance of protecting the environment. This activity also acts as an effective educational tool, where students are taught to pay more attention and care to the environment around them. MI environmental ambassador Khadijah also actively encourages their friends to reduce the use of plastic waste.

This activity is not only beneficial for the environment, but also shapes the character of students to be more caring and responsible. They learn that every small action, such as carrying a tumbler and throwing rubbish in the right place, can have a big impact on environmental sustainability. Thus, MI Khadijah not only produces students who excel academically, but students who have high environmental and social awareness.

The benefits of the Adiwiyata program are reduced activities in training attitudes of responsibility as follows:

1. This program plays a role in changing the behavior of school residents who were previously less sensitive to the environment to become more sensitive to the importance of responsibility and attention to environmental conservation efforts.
2. This program can prevent various risks posed by poor environmental conditions around the school, such as becoming a place for disease to develop or disturbances in comfort that can hinder the teaching and learning process.
3. Adiwiyata also plays a role in building togetherness among the entire school community. Because this program involves all parties without exception, togetherness and collaboration are important values created during its implementation.
4. This program provides meaningful learning for the younger generation about how to care for and protect the environment appropriately and effectively. Through Adiwiyata,

students are taught the importance of a sense of responsibility and concern for the environment.

5. The Adiwiyata program helps improve the quality and comfort of the teaching and learning process in schools. By changing the behavior of school residents for the better, creating a sense of togetherness, and protecting the environment, the learning atmosphere becomes more conducive and supports educational success.

The Adiwiyata program provides many valuable benefits, especially for students. Based on the results of interviews with the Adiwiyata coordinating teacher, this program helps students develop a responsible attitude towards themselves. This makes them no longer dependent on other people constantly. The interview results show that the Adiwiyata Program plays an important role in forming students' sense of responsibility. Through this program, students become more aware of their personal obligations and no longer neglect the tasks that are their responsibility. Apart from this, this program also encourages students to care more about the environment around them, something they may have previously paid less attention to. Since the implementation of the Adiwiyata Program, many positive changes have been seen, both in terms of students' attitudes and behavior. This program not only increases their awareness of the importance of preserving the environment, but also shapes student behavior that is more responsible and caring.

In the future, MI Khadijah is expected to continue developing innovative environmental programs, by involving more students in various activities. One of the focuses is to expand the movement to reduce plastic waste, so that the impact can be felt more widely by society and the environment. With these steps, MI Khadijah can become a role model in environmental conservation efforts. Through various activities involving students, schools not only increase understanding of the importance of protecting the environment, but also build a strong sense of responsibility in the younger generation. Support from schools, parents and the community is expected become an initiative that can continue and grow. MI Khadijah is committed to creating a healthier and cleaner environment, as well as producing a generation that cares about the environment and has high social awareness. With the active involvement of all school members and the community, it is hoped that MI Khadijah can pass the provincial level Adiwiyata School selection and become an example for other schools in implementing a culture of caring for the environment.

4. CONCLUSION

The Adiwiyata program, especially the "Reduce" activity, plays an important role in training students' responsibility skills at MI Khadijah Malang City. Through this activity, students learn to reduce plastic use, sort waste, and contribute to environmental management. This program is proven to increase environmental awareness and build students' caring and responsible personalities. However, success requires support from all parties, including teachers, parents and the community. MI Khadijah is expected to continue to develop innovative environmental programs to provide wider benefits and become a model for environmentally caring schools.

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