

Level of Environmental Literacy of Students and School Community in Green Open Space: Is there any difference between both of them?

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Environmental education aims to create people who have good environmental literacy. This study tries to explain previous studies related to how the level of students' literacy and stakeholders' literacy in green open space affects students' environmental literacy. This is descriptive research conducted in SMPN 2 Suayan. The purposes of this study are 1) to identify the environmental literacy of the students and the school community in the green open space 2) to identify the difference between students' environmental literacy and school community in green open space. The sample consists of 70 students and 40 people from the school community. Measurement of environmental literacy is discussed in 3 domains, namely the domain of knowledge, attitudes towards the environment, and behavior towards the environment. The total number of instruments is 45 items. The reliability value of instruments for knowledge, attitude, and behavior domains are 0.874, 0.927, and 0.965, respectively, and are the high category. Collected data of students and school community were analyzed by using Microsoft Excel and SPSS. The difference in environmental literacy of students and school community in green open space was analyzed by using Mann-Whitney U Test. The environmental literacy value of students and school community are respectively 77.1% and 79.7% and are high category. The analysis on the achievement of environmental literacy scores shows that there are no significant differences in both groups. This concludes that the school community that has good environmental literacy will give a good influence on students' environmental literacy and knowledge. The last, by knowing the roles of the school community and availability of green open space on achieving environmental literacy of students, all related stakeholders are suggested to upgrade the environmental literacy of the school community and support the availability of green open space in the school area.

Keywords: Environmental Education, Green Open Space, Environmental Literacy, School Community

INTRODUCTION

Education aims to transform people into better individuals in knowledge, attitudes, and behavior. The form of education that can change and give a huge impact on sustainable development is education for sustainable development (Tristananda, 2018). Sustainable development aims to achieve social progress, economic growth, and peace (García-Feijoo et al., 2020). Jones et al. (2017) state that sustainable development's target is to solve environmental, economic, and social problems. According to Dube and Lubben (2011), international society thinks that education for sustainable development means solving massive problems nowadays included environment, poverty, and health.

Similarly, environmental education seeks to change the human mindset and create people who have sensitivity to the environment. Environmental education is a term in the educational dimension as an environmental-based movement with a focus on environmental problems. Environmental education means (Shantini, 2016) teaching students related to environmental issues and environmental management insights.

According to Sudjoko (2014), environmental education means changing one's views and behavior towards the environment from a careless attitude to caring about the environment and so on, from being a passive observer turned into an active actor in environmental conservation efforts. Sukarto (2017) states that by knowing how important the character of environmental care is owned by everyone, it is very important to incorporate this environmental education into a formal education in Indonesia.

Rezkita and Wardani (2018) state that in Indonesian environmental education programs are called Adiwiyata programs. In this context, education itself serves to build human beliefs, understanding, and ecological behavior (Maghfur 2010), as well as to include affective aspects such as values, behaviors, commitment to building sustainable community life (Marliani, 2014). The importance of environmental education is to make people understand and competent to perform scientific performance and find solutions to environmental problems (Bonnett, 2010).

The main purpose of environmental education is to create people who have good environmental literacy and are sensitive to environmental problems. Then, Kusumaningrum (2018) states that environmental literacy means the ability of each individual to understand the environment and interpret the conditions in the environment and decide the right actions in addressing environmental problems. Environmental literacy is a measure of one's knowledge about human interaction with the environment, knowledge of environmental issues, and knowledge of various relationships that

existed in ecological components. Nowadays, to see the massive environmental degradation, it is so urgent to educate people who are environmentally literate (Deswari & Supardan, 2016)

Research conducted by Susilastri (2015) in schools that implement the Adiwiyata program finds that knowledge mastery and attitude towards the environment is still low. Some of the cases confirmed in the study are that the learning process does not demand the ability of the student's science process and family factors also affect the results of the student's low environmental literacy. This indicates that teachers need to take efforts harder to make the learning process more interesting, innovative, and environmentally oriented.

Many factors affect the profile of students' environmental literacy. Teachers play an important and responsible role in creating individuals and communities that are literate towards the environment (Tosun & Gursakal, 2016). Science teachers should realize that science education has a huge impact on students' environmental literacy (Gayford, 2002). In addition, to support students' environmental literacy skills, environmentally related topics and issues must be included in the curriculum and textbooks, and the implementation of extra-curricular activities related to environmental literacy (Kaya & Elster, 2019).

Furthermore, the location of the school located around the green open area will certainly support the students' environmental literacy indirectly. Following the concept of environmental education, the necessary learning environment should allow students to study outside the classroom, observe nature, practice learning issues about the environment (Desfandi, 2015). Mulyana (2009) argues that environmental education and the availability of a green school environment support students towards realizing, directing, and guiding towards the establishment of environmental ethics. Having that access to green open areas could improve environmental sensitivity. Later, a study conducted by Hammarsten et al. (2019) confirms that many children express positive feelings about forest gardens, carry out activities there, and care about living things there.

This study discusses the environmental literacy of students and the school community in a green open space. The idea is to identify the difference in environmental literacy possessed by students and the school community as part of school stakeholders. Indrati and Hariadi (2016) state that all educational stakeholders have to think about sustainable education that is considered important for future life. There some urgencies of this study are 1) to consider the influence of stakeholders to upgrade students' environmental literacy, therefore any policy can be made toward stakeholders to upgrade students environmental literacy; 2) to consider the influence of availability

of green open space to upgrade students' environmental literacy, therefore any policy can be made toward availability of green open space to upgrade students' environmental literacy

Based on the preliminary study, the research is located in an open green space. Then, the teacher in school practices environmental education in the learning process. This study tries to explain previous studies related to how the level of students' literacy and stakeholder's literacy in green open space affects students' environmental literacy. As stated that stakeholders have a very important role in the student's environmental literacy, so in the research, it is necessary to review the comparison of student and stakeholder literacy. The school stakeholders in this study are the school community. In fact, according to Maulidya et al. (2014), students' social life, culture, social background, parental, and any system in Indonesia still lack concern on environmental awareness.

Therefore, based on the background, there are two purposes of this study. Firstly, to identify the environmental literacy of the students and the school community in the green open space. Secondly, to identify the difference in environmental literacy of students and the school community in green open space. And the last, the limitations of the research are that the result of the research is only generalized in the school located in green open space, and the stakeholders involved in this research only consist of teachers and surrounding society. Other stakeholders can influence the environmental literacy of students.

METHODS

This is a type of descriptive research that aims to reveal the environmental literacy profile of students and the school community in a green open area. It was conducted to reveal the characteristics of the subjects. This study took place in SMPN 2 Suayan. SMPN 2 Suayan is a school located in a rural area with a green open environment. The location of the school is surrounded by hilly areas with forests that are still very shady and located in the surrounding rice fields and plantations. The strategic location of the school is very supportive of an effective environmental learning process. So, students are daily exposed to green open areas.

Samples are 70 students and 40 people from the school community. The school community consists of teachers, school employees, and the surrounding community. Students consist of grades VII, VIII, and IX. The school community means everyone who has a big possibility communicating with students. So, the researchers collected data from teachers, parents, students' neighbors, society around the school area.

Domains of environmental literacy measured are knowledge, attitudes towards the environment, and behavior towards the environment. Table 1 shows the domains of environmental literacy.

Table 1. Domains of Environmental Literacy

NO	Domains of Environmental Literacy	Items	Range Score	Minimal Score	Maximal Score
1	Knowledge	15	0 – 15	0	15
2	Attitude toward environment	15	15- 60	15	60
3	Behavior toward environment	15	15- 60	15	60
	<i>Environmental Literacy</i>	36	30- 135	30	135

McBeth & Volk (2009)

The test is used to measure the knowledge domain of environmental literacy with a range score from 0 to 15 for each student. Non-test is to measure aspects of attitudes and behaviors of students and school community towards the environment with a range score from 15 to 60 for each student. The number of instruments of each domain is shown in Table 2.

Table 2. Number of Instruments

NO	Variable	Instrument	Output	Items
1	Knowledge	Test	Score	15 items
2	Attitude toward environment	Questionnaire	Scale	15 items
3	Behavior toward environment	Questionnaire	Scale	15 items

Domains of environmental literacy are adapted from Middle Schools Environmental Literacy Survey/ Instrument (MSELS/I) (NELA, 2008). The instruments used were validated by some experts from a different institution and then validated through an empirical test in a state school. The validation and reliability of instruments were analyzed by using SPSS software. The reliability value of instruments for the domains of knowledge, attitudes towards the environment, and behavior towards the environment are respectively 0.874, 0.927, and 0.965 and are categorized high. Then, questions and questionnaire items were chosen to be used in this research.

Data were collected by delivering the instruments to respondents. Data of students were collected in the school and data of school

community were collected in the school and out of school randomly. The school community might consist of students' teachers, students' parents, students' neighbors, and other kinds of communities connected to students' daily life. Collected data of students and school community were analyzed by using Microsoft Excel and SPSS. To know the relationship between the school community and students, an average different test was conducted to see if there were differences in the results obtained by the two groups. Thus, it used the Mann-Whitney U test because the data distribution is abnormal. The result of the analysis is shown in percentage form.

The results of the environmental literacy test are processed in percentage form by using the following formula:

$$NP = \frac{R}{SM} \times 100\%$$

Purwanto (2013)

Information:

NP = Value%
R = Score obtained by students
SM = Maximal Score of Test

The last, the results of the environmental literacy were interpreted in 3 categories. The environmental literacy categories are shown in table 3.

Table 3. Environmental literacy category

Range Score	Interpretation
22,2% – 48,1 %	Low
48,2% - 74,1%	Medium
74,2% - 100%	High

Interpretations of environmental literacy in three categories are low, medium, and high. The range score for the low category is 22.2%-48.1%. The range score for the medium category is 48.2%-74.1%. The range score for the high category is 74.2%-100%.

RESULTS AND DISCUSSION

35 The result shows the environmental literacy of SMPN 2 Suayan students in the high category with an average score of 77.1%. Based on these findings, it can be said that students have knowledge about a good environment, a good environmental care attitude, and good daily environmental practices. Table 4 shows environmental literacy scores for each domain studied.

Table 4. Score of Student's Environmental Literacy

NO	Domains	Percentage	Interpretation
1	Knowledge	66,6 %	Medium
2	Attitude	83.3 %	High
3	Behavior	81.3 %	High
	Environmental Literacy	77.1%	High

In the researchers' observations, the high environmental literacy score obtained by students is at least influenced by two factors, namely 1) the implementation of environmental education in schools 2) students who are always exposed to green open spaces. These factors are believed by the researchers to greatly influence the literacy of students in SMPN 2 Suayan. These results are obtained through interviews with teachers and a survey on the school environment.

According to the teacher's statement that in the learning process teachers often associate with the surrounding environment. By associating learning with the surrounding environment, the learning process will be more real, and children will be easier to understand the learning material because what is discussed is what they find in everyday life. By being sensitive to the environment, the student's environmental literacy will increase. The use of examples that they directly find in everyday life such as discussion of forest areas found around them makes learning easier. Using the environment to educate is using all surrounding school environmental components to learn (Susanti & Mulyani, 2013)

Furthermore, the role of green open areas as part of the daily environment of students at SMPN 2 Suayan also contributes to the students' literacy. As discussed earlier, SMPN 2 Suayan is located in a location surrounded by green areas, namely hills, forests, plantations, and rice fields. The school has ever been an Adiwiyata school and is currently expired. The school still maintains some facilities of Adiwiyata school. Being always exposed to green open space is one of the factors that support the high literacy of the students. This is in line with what Clark et al. (2016) said that to improve community environmental literacy, the understanding of green open spaces, availability and ease of access for people to green open spaces is one solution in achieving that goal.

The school community consists of teachers, school employees, and the community around the school. The profile of the environmental literacy of the community is needed to see the comparison of abilities possessed by students and the school community. The school community always interacts with the students both outside and inside the school. Based on data of environmental literacy tests of the school community, it was obtained that the percentage of achievement of environmental literacy of the school community is 79.7%. This

leads to the high category which means that the community of SMPN 2 Suayan school has good environmental literacy. This means that the environmental literacy possessed by both SMPN 2 Suayan students and the community is high.

Furthermore, based on 3 domains of environmental literacy that the percentage of environmental literacy of the school community in the domains of knowledge, attitudes, and behaviors are 74.3%, 85.5%, and 79.3%. More details can be seen in the table below.

Table 5. Environmental Literacy Score of the School Community

NO	Domains	Percentage	Interpretation
1	Knowledge	74,3 %	High
2	Attitude	85.5 %	High
3	Behavior	79.3 %	High
	Environmental Literacy	79.7%	High

Interpretation of environmental literacy in all three domains is high. The domain of knowledge is the lowest achievement owned by the school community.

The school community is a part of stakeholders who play a very important role in the educational process in the school. The environmental literacy owned by the school community and students is at the same level which is in the high category. Therefore, the school community that has good environmental literacy will give a good influence on the environmental literacy of students. Stakeholders greatly influence the achievement of students' environmental literacy.

Teachers as part of stakeholders play an important role in the implementation of environmental education in schools. Thus, in the implementation of environmental education, teachers should already have good environmental literacy. In addition to teachers and school employees, the students' social environment is also very important in the achievement of students' environmental literacy. A social environment consisting of parents, relatives, and neighbors is an important part of shaping a student's environmental literacy. Afrianda et al. (2019) state that the attitude of caring about the environment is also influenced by the daily life of students who still get environmental education from both the family and the surrounding environment. In line with what Tamara (2016) says, family, residential environment, playmates, and relatives also greatly influence the environmental care attitude owned by students.

According to the research of Mustika and Sahudra (2018) by conducting research on the role of the social environment in the formation of environmentally caring characters of geography students and it is obtained that the role of the

family has the highest influence in the formation of environmentally caring characters followed by the role of the campus and the surrounding community. Then Perdana (2018) states that the role of parents/communities in character formation is as a figure in the implementation of characters. Therefore, the best way to shape students who have good environmental literacy is to carry out a good environmental education (Mardiani et al., 2020). However, the role of the school does not only form good literacy, but it needs support from the family and other social environments in the formation of good literacy. So as found in the study, literacy of the school community and students is at a high level. Thus, this is in line with previous discussions that student literacy is strongly influenced by the school environment and its social environment.

Furthermore, discussion on percentage comparison of the 3 domains of environmental literacy between students and the school community, there is a bit different in the percentage score of achievements. Based on Table 4 and Table 5, it can be seen that for the domain of knowledge, the percentage obtained by the school community is higher than students. Environmental literacy between students and the school community in the domain of knowledge where on students is in the medium category while on the community is in the high category.

Then, from the result, we know that the school community has better environmental knowledge than students. Then, for the attitude domain that the percentage owned by the school community is also higher than students with a relatively small difference. Both students and the community are at a high level. Furthermore, for the behavior domain, students have a higher percentage than the community with a relatively small difference. In general, both groups are in the high category of environmental literacy. However, there is a difference in environmental literacy scores between the community and students where the community has higher score achievement than students. The difference in environmental literacy test scores between students and the community is about 2.6%. This discussion has not explained whether there is a significant difference in the achievement of the environmental literacy test on students and the school community.

In the previous discussion, it has been stated that the school community affects the literacy of the students. This study finds that students and the community have high environmental literacy. To clarify the relationship between the two groups, an average different test was conducted to see if there were differences in the results obtained by the two groups. Thus, by using the Mann-Whitney U Test, it was obtained p-value > 0.05. So, there is no difference in the average results of environmental literacy tests between students and the school community. This

is concrete evidence that there is a very close relationship between the students and the school community.

The results of the research show that to raise the environmental literacy of students, it is needed to have a literate community. The community around the students affects students in many factors. The literate community supports literate kids and students. For example, teaching environmental education in school needs all teachers of all subjects who understand about environment. Because environmental education is not a subject of learning but integrated with other learning subjects (Afandi, 2013) including science, social, language, etc. So, we can say, to raise a literate student it needs a literate teacher. Teachers as part of a community are an important factor to build students' literacy. Building students' environmental literacy is important for ensuring environmental sustainability in a future life (Shume, 2016). Through this research, we can say that the government needs to upgrade the skills of the school community to build students' capability in environmental literacy.

CONCLUSION

SMPN 2 Suayan is a school located in a green open space surrounded by hills, forests, and rice fields. The results show that the environmental literacy of SMPN 2 Suayan students is at the high level with an average score of 77,1%. Then, the results of the environmental literacy test on the school community present that the percentage of environmental literacy of the school community is 79.7% and categorized as high level. Next, Mann-Whitney U Test was implemented on these two data tested and known that these data do not differ significantly. This is concrete evidence that there is a very close relationship between the students and the school community. So, it is concluded that the school community that has good environmental literacy will give a good influence on the environmental literacy of students. Based on the findings of the study, implementing environmental education integrated with the surrounding environment is very effective to improve the environmental literacy of students. The school community that is literate to the environment has an important influence on the ability of students' environmental literacy. By knowing the roles of the school community and availability of green open space on achieving environmental literacy of students, all stakeholders especially government should upgrade the environmental literacy of the school community and support the availability of green open space in the school area. Through this research, we know that both stakeholder role and availability of green open areas in school support students' environmental literacy.

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GRADEMARK REPORT

FINAL GRADE

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GENERAL COMMENTS

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