



## Description of Environmental Care Analysis of Students in Elementary Schools

Joneil B. Medina<sup>1</sup>

<sup>1</sup>Department of Science and Mathematics Education, College of Education, Mindanao State University, Philippines

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### ABSTRACT

**Purpose of the study:** This study aims to describe the environmental care character of students at the elementary school level.

**Methodology:** This research is a qualitative research with a systematic literature review type. The data in this study is secondary data in the form of research results documents related to this research. The population in this study was obtained from the Google Scholar site with the selected article criteria related to the search keywords. The total population obtained is 25 articles from Google Scholar.

**Main Findings:** The main findings explain the important factors in instilling the Caring for the Environment character in elementary school students. By caring for the environment students can recognize the types of waste according to their group. The impact caused by students besides making students comfortable learning also helps students get used to living healthy and clean.

**Novelty/Originality of this study:** This research seeks to describe the character of caring for the environment through literature studies from previous studies on the character of caring for the environment in elementary schools.

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### Corresponding Author:

Joneil B. Medina,  
Department of Science and Mathematics Education, College of Education, Mindanao State University,  
Philippines  
MSU Main Campus, Marawi City, 9700 Lanao del Sur, Filipina  
Email: [joneilbmedina@gmail.com](mailto:joneilbmedina@gmail.com)

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## 1. INTRODUCTION

Education is the most important thing in our lives, this means that every Indonesian has the right to get it and is expected to always develop in it [1]–[3]. Education will never end. Education in general means a life process in developing each individual to be able to live and live life. So being an educated person is very important. We are educated to be people who are useful both for the State, the Homeland and the Nation [4]–[6]. The first education we get is in the family environment (Informal Education), the school environment (Formal Education), and the community environment (Non-formal Education). Informal education is education that a person obtains from everyday experiences, consciously or unconsciously, from birth to death. This educational process lasts a lifetime [7]–[9]. So the role of the family is very important for children, especially parents.

Elementary school education also has the same meaning as the explanation described above, but there are differences from the audience, namely elementary grades 1 to 6 whose material provisions and subject matter are regulated in the GBPP (Outlines of the Teaching Program) [10]–[12]. The purpose of elementary school education itself is to lay the basic intelligence, knowledge, personality, noble character, and skills to live independently and follow further education. In addition, the existence of this basic education can make a child form individuals who are able to live in groups. There are several functions of basic education as a reference

before moving on to the next level of education, because if the basic education level is not enough attention, then of course going to the next level will also be difficult and not good enough [13]–[15].

The educational process is inseparable from the environment, the educational process and the environment have a close and inseparable relationship [16]–[18]. Problems in the environment that occur today cannot be separated from human behavior because the environment and humans live side by side. Humans are considered as selfish individuals because they only think about their interests without paying attention to environmental sustainability. Activities exploiting the environment indicate that human concern for the surrounding environment has been lost which will have a major impact on human life itself [18]. This can be seen from the smallest thing, namely the difficulty of the human habit of disposing of waste in its place.

Character education is education that teaches ways of thinking and behaving that are characteristic of each individual in society and the country [19]. To make people aware of the importance of preserving a good environment can be done by providing knowledge and instilling character through education. Character education must be instilled from an early age, especially at the elementary school level as a place of education which is the basis for forming children's character towards caring for the environment around [20]. The formation of the character of caring for the environment is instilled through education in schools during the learning process and through daily habits carried out by the teacher as the prime mover and implemented by students. There are four ways of implementing environmental care character education in elementary schools, including through routine habituation activities, spontaneous habituation activities, exemplary habituation activities, conditioning.

## 2. RESEARCH METHOD

This research focuses on the character of caring for the environment in students at the elementary level. This research is a qualitative research with a systematic literature review type [21]. Systematic Literature Review (hereinafter shortened to Systematic Review-TS) is a written assessment of scientific publications with methods that have been established and recognized by the research community to achieve the target of identification, analysis, interpretation of all available evidence in order to answer certain research questions, where methods and the results of the assessment are explained in a structured and sequential manner, and are open to receiving comments and further elaboration. The data in this study is secondary data in the form of research results documents related to this research. The population in this study was obtained from the Google Scholar site with the selected article criteria related to the search keywords. The total population obtained is 25 articles from Google Scholar.

The flow of research conducted as follows.

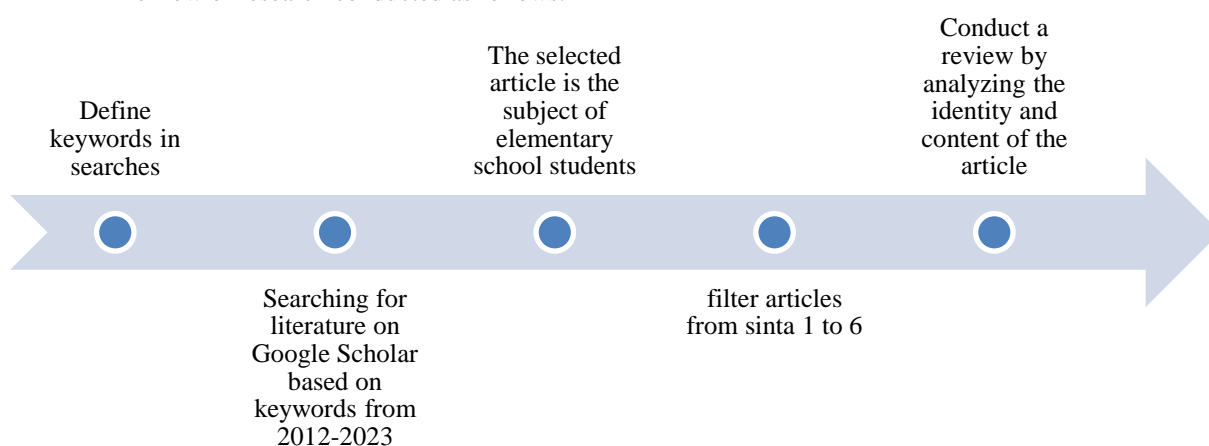


Figure 1. Data collection flow

The above flow chart is explained in detail as follows:

1. Define keywords for the main search.
2. Searching for literature on Google Scholar with the keyword "Caring for the environment in Elementary Schools" spanning 2012 to 2023.
3. The selected articles are articles related to keywords with the subject of research by elementary school students.
4. Articles obtained on Google Scholar are filtered again with the criteria for selected articles to be study articles from Sinta 1 to Sinta 6 indexed journals.

Conduct a review by reading the title, abstract of the article on the research topic. After the articles that will be used as references are collected, the researcher conducts a review with several criteria shown in the descriptive statistics table.

### 3. RESULTS AND DISCUSSION

The review process is carried out on scientific articles that are selected for their reputation based on the topics studied. Environmental care character of elementary school students. The number of articles reviewed is as much 25 pieces. Following are the results of a review of articles about this research:

Tabel 1. the results of a review of articles about this research

No	Author (Year)	Sample	Research Design	Scope Environment Care	Findings
1	Hayatul Khairul Rahmat, Syahti Pernanda, Mutiara Hasanah, Akhmad Muzaki, Ela Nurmalasari, Lathifatuddini Rusdi. (2020)	study of library literature	library research methods (library research)	Discovery Learning; Learning model; Environmental Care Attitude	The attitude of caring for the environment is an attitude and action that always tries to prevent damage to the surrounding environment and develops efforts to repair the damage that occurs. Through an attitude of caring for the environment, elementary school students not only know the importance of protecting the environment but also strengthen their curiosity about how to protect the environment.
2	Arifin Muslim, Novica Dimar Azizah, Supriatna, Eneng Dian Nurwulan. (2021)	principals, teachers of grades II and V, students of grades II and V.	qualitative descriptive research.	Character Education and Environmental Care	the school community has tried to implement an environmentally sound school curriculum, in the learning process utilizing the school environment, the school community has implemented eight school indicators, six indicators that have been implemented by class II and class V students
3	Romi Isnanda1 , Gusnetti,M. Sayuti , Syofiani , Rio Rinaldi, Marsis (2020)	Literature review	qualitative descriptive research. The approach used is to use the method of content analysis (content analysis).	learning, Indonesian, insightful, ecoliteracy	The implementation of the learning process carried out by the teacher in the classroom, of course, cannot get out of the way that has been set by the policy maker as set out in the curriculum document so that it becomes a national goal. One of the issues that is of concern to the government is environmental problems
4	Fitriah Susilawati, Gunarhadi, Hartono. (2020)	teachers and students of class IV elementary school	case study.	teaching materials, character, care for the environment	Teachers need scientific-based teaching materials that are integrated with regional potential content in an effort to improve students' environmental care character. For this reason, teachers need to develop their own thematic teaching material products that are scientifically based and integrated with local potential for fourth grade elementary school students.
5	Jasmana (2021)	students who are students of SD Negeri 2 Tambakan	descriptive qualitative research,	Character Education, Habituation Activities, Elementary Schools	Character education habituation activities at SD Negeri 2 Tambakan concluded that habituation activities are a relatively sedentary and automatic process of forming

No	Author (Year)	Sample	Research Design	Scope Environment Care	Findings
					attitudes and behavior through a learning process that is repeated and carried out outside of class hours.
6	JuniSiskayanti,Ika Chastanti. (2022)	class student	V qualitative descriptive,	Character, Care for the Environment, Students.	The second indicator regarding the 3R concept obtained a percentage of 45.27%. For this reason, the results show that the level of knowledge of students in protecting the environment is included in the low criteria.
7	Yenti Efriyani(2022)	fifth grade elementary school students	Research and Development (R and D)	Developmental instruments, attitude assessment, environmental care	The environmental care attitude of students is dominated by the moderate category as much as 69.375% (111 students) with a mean value of 75.8687. For the high category of 15% and in the low category of 15.625%.
8	Sifaun Naziyah, Akhwani, Nafiah, Sri Hartatik (2021)	principals, teachers and students	qualitative descriptive	Character Education, Care for the Environment, SD.	The lack of cooperation between parents and teachers causes students to care less about the environment. Schools have tried to implement character education that cares for the environment well, although there are still some obstacles.
9	Denna Delawanti Chrisyarani& Arnelia Dwi Yasa (2021)	Student	qualitative descriptive analysis	green zone, caring, environment	Judging from the percentage of pre-test and post-test, there is an increased understanding of understanding the environment and plants (related to the green zone program). Based on the gain score, there are differences in mastery related to plants, TOGA, or programs that lead to the green zone and assessment before and after being given treatment.
10	Dewi Masithoh, Riska Anintyawati. (2022)	school people	participant participatory methods	Love of The Environment; Character Education; Elementary School	educating the importance of preserving the environment, increasing awareness of the importance of protecting the environment, forming a positive character "Love the Environment" in students and school members.
11	HarmiahHb, Rosleny, Sulfasyah. (2022)	student	qualitative descriptive	Implementation, Adiwiyata, Creativity, Caring Attitude	Students' caring attitude towards the environment is formed through the implementation of the Adiwiyata program with environment-based habituation activities such as keeping the classroom and school environment clean, Saturday clean activities, disposing of trash in its place, carrying out the LISA program (see trash pick up), and the 1 plant pot 1 student program.
12	Nofriza Efendi ,	School	qualitative	Implementation,	internalization of character values

No	Author (Year)	Sample	Research Design	Scope Environment Care	Findings	
	Refli Surya Barkara, Yanti Fitria. (2020)	people	research with a case study approach	Care for the Environment, Elementary School, Character	of caring for the environment is inseparable from the teacher's efforts in planning learning in the form of compiling teaching tools such as syllabus, Learning Implementation Plans (RPP) and learning media, these tools have been analyzed beforehand by the teacher regarding the value content contained in the material to be taught.	
13	Lilis Ramadhani, In Purnamasari, Veryliana Purnamasari (2019)	Febri In SDN Lamper Tengah 02 Semarang.	principals, teachers and students of SDN Lamper Tengah 02 Semarang.	qualitative with a descriptive approach.	Environmental care character, school culture, Adiwiyata	Adiwiyata-based school culture which includes routine activities, spontaneous activities, exemplary, conditioning, educative, participatory and sustainable can strengthen the character of caring for the environment, namely the habit of maintaining cleanliness and environmental sustainability, landfills and hand washing places, etc.
14	Yosef Narut, Firman Mikael Nardi. (2019)	the 6th grade students	A descriptive qualitative research	Attitude, Environmental, Environmental Care	This indicates that cognitive and affective factors do not necessarily affect on students' conations. Even though the students have awareness (cognition) and feelings (affection) related to the surrounding environmental problems, these are not visible in their daily behavior (conation).	
15	Jufri, Umaruddin La Fuadan Ratna Umi Nurlila. (2018)	principals, teachers, students, and school committees	qualitative descriptive.	Environmental Education; Learning; Environmental Care Character	Elementary schools as a place to teach environmental education to students in forming attitudes and behaviors that love the environment are very appropriate, by introducing environmental education to the younger generation from the start. Environmental education conducted by Baruga 1 Public Elementary School has been carried out to shape the character of caring for the environment.	
16	Ummi Rokhmah, Nur Misbahul Munir. (2015)	principal, 3 teachers, 4 students, 1 janitor, 1 canteen guard and parents of students	3 qualitative approach with 4 descriptive research type.	School culture, environment, character, care for the environment	an environmentally sound school culture is implemented through 3 steps, namely planning, implementation and evaluation. Planning activities are forming a school environmental management team, making environmental studies and planning environmental actions.	
17	Nofriza Refli Barkara2, Efendi1, Surya Yanti	classroom teacher	a qualitative research with a case study	implementation, environmental care, elementary schools,	internalization of character values of caring for the environment is inseparable from the teacher's	

No	Author (Year)	Sample	Research Design	Scope Environment Care	Findings
	Fitria. (2019)		approach.	character	efforts in planning learning in the form of compiling teaching tools such as syllabus, Learning Implementation Plans (RPP) and learning media, these tools have been analyzed beforehand by the teacher regarding the value content contained in the material to be taught.
18	Mutiara Shinta, Siti Quratul Ain. (2021)	class V student	descriptive with qualitative approach	Strategy, SD, Student Character.	the character of class V students seen from the planning is good, starting from activities inside and outside the classroom, adequate facilities and infrastructure to support the implementation of the school's strategy in shaping student character through the formation of religious, disciplined and caring character for the environment
19	I Gusti Ngurah Santika, I Wayan Suastra, Ida Bagus Putu Arnyana. (2022)	Literature studies are carried out by looking for various written sources, both in the form of books, archives, magazines, articles, and journals, as well as documents that can facilitate researchers.	Qualitative	Character, Care for the Environment, Elementary School, Science Learning	factors that influence the formation of environmental care character through science learning are teaching materials. Learning media as part of teaching materials also have an equally important role in shaping the character of caring for students through learning science.
20	M. Jen Ismail (2021)	reviewer's study of books, literature, records, and reports related to the problem to be solved.	literature study method	Character Education, Care for the Environment, Maintaining Cleanliness.	Character education is very closely related to habits that are continuously practiced or carried out, in the sense that character education is expected to be able to touch the three domains (cognitive, affective and psychomotor) of students so that students not only know but also want and are able to carry out what they know the truth
21	Yakub Nasucha , Laili Etika Rahmawati , Yasinta Silviana , Ruis Udin, Siti Atitah, Widi Astuti, Niko Indriyani , Isnaini	students	kualitatif	character. environmental care. elementary school	The love for the environment program consists of four integrated activities, namely socialization of PHBS (Clean and Healthy Living Behavior), a cleanliness competition, a movement to bring a tumbler, and a movement to plant trees. The

No	Author (Year)	Sample	Research Design	Scope Environment Care	Findings
	Safitri , Fera Diah Ayu K., Sulisty Aji , Evatias Nirmala, Sri Arfiah. (2020)				love for the environment program is implemented well and has a positive impact in the form of student concern for protecting the school environment.
22	Reja Fahlevia,,Fathul Jannah, Raihanah Sari. (2020)	School residents at SDN 1 Basirih	qualitative research approach with the case study method	Implementasi Karakter Peduli Lingkungan Kewarganegaraan Ekologis Adiwiyata	the character of caring for the river environment has been integrated into aspects of the Adiwiyata program. There is a vision, mission and school goals that contain river environment, an integrated curriculum on the environment by integrating all subjects.
23	Endah Marwanti Irfan Adi Nugroho. (2021)	school principals, teachers and students at SDN Glodogan 2.	descriptive qualitative research	Character education, environmental care, device	The Environmental Care Program has been implemented in schools in order to make learning fun for students. Implementation Caring for the environment can be applied by school officials to students, with the aim of growing and forming the character of students who are aware of the importance of preserving the environment and the importance of maintaining the balance of nature.
24	Sajidan, Idam Ragil Widiyanto Atmojo, Dwi Yuniasih Saputri, Roy Ardiansyah. (2022).	30 students.	quasi-experimental with the form of one group pretest-posttest	outdoor learning, edutainment, potensi lokal, peduli lingkungan, sekolah dasar	outdoor learning learning model can foster an attitude of caring for the environment with a gain value of 0.33 included in the medium category. The recommendation of this research is that teachers can apply outdoor learning models by utilizing tourism based on existing local potential as a learning resource
25	Deswita Aulia Nasution, Tanzimah, dan Arief Kuswidyanarko. (2023)	class I teachers, school principals, and first grade students as many as 6 people at Palembang 96 Public Elementary School.	qualitative method	Strategi Guru, Pembentukan Karakter, Peduli Lingkungan, Sekolah Dasar	the formation of the environmental care character of class I students uses a good strategy and is in accordance with the indicators of the environmental care character building strategy which is the reference for researchers in this study. The strategy indicators that the author refers to are exemplary, habituation, and instilling or enforcing discipline in students.

25 pieces. Following are the results of a review of articles about this research: Overall, previous researchers , limited the evaluation of the scope of learning to four major components, among others; (1) character education, (2) character care for the environment, (3) environmental character assessment for elementary school students, and in this article the character cares for the environment for elementary school students only focuses on the scope of the domain of learning outcomes with a sample of elementary school students (SD).

Based on the results of the analysis of 25 articles, the results of the discussion analysis are:

#### a. Environmental care character of elementary school students

In the analysis of a review of 25 articles regarding caring for the environment for elementary school students, the formation of the character of caring for the environment for students uses a good strategy and is in accordance with the indicators which are used as a reference in research. Character education is very closely related to habits that are continuously practiced or carried out, in the sense that character education is expected to touch all three domains (cognitive, affective and psychomotor) [22]. One of the factors that influence the formation of environmental care character through science learning is teaching materials. In this case, the teacher's efforts in planning learning are in the form of compiling teaching tools such as syllabus, Learning Implementation Plans (RPP) and learning media, these tools have been analyzed beforehand by the teacher regarding the value contained in the material to be taught [23]. The lack of concern for the environment at the elementary school level is due to the lack of participation of teachers and parents in character building. So that the school community should try to implement an environmentally sound school curriculum, in the learning process by utilizing the school environment.

#### b. Environmental care character assessment of students

Assessment of students' environmental care character from the results of the article review explained that there were 92 percent explaining that students had good environmental care. This happens because there are several applications of environmental care carried out in learning. Applications are carried out such as mutual cooperation activities, disposing of garbage, planting plants and paying attention to the form of waste when disposing of garbage. There were 8 percent who explained that students at the elementary school level still had low awareness of caring for the environment [24]. This is due to the lack of learning that is environmentally clean. The lack of participation of school principals is also a factor in low environmental awareness.

#### c. The impact of the character of caring for the environment of students

The character of caring for the environment in elementary school students has an impact both in the long term and in the short term [25]. In the long term students can apply a clean life within themselves, students can get used to always keeping the environment clean and teach students the importance of mutual cooperation in cleaning the environment. Caring for the environment is carried out in order to create a clean and healthy environment so that residents or students who study and live there feel comfortable and peaceful [26]. The short-term impact carried out by students is that students know the types of waste that are disposed of according to the type. In addition, students are protected from mosquito bites or animals that can carry disease, which makes students study comfortably and focus on learning.

## 4. CONCLUSION

The analysis of 25 review articles explains the important factors in cultivating the character of Caring for the Environment in elementary school level students. By caring for the environment students can recognize the types of waste according to their group. There are several schools that are still low on environmental care for students. This is because teachers, principals and parents do not participate in implementing environmental care. The impact caused by students besides making students comfortable learning also helps students get used to living a healthy and clean life.

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