Implementation of the Numeracy Literacy Program in Learning Mathematics Remaining Class IV in Muhammadiyah Elementary Schools

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Abstract. Government programs in fostering a culture of reading and making students literate individuals are welcomed by the implementers of the education program. The purpose of this study was to analyse the implementation of the numeracy literacy in mathematics learning, to analyse the supporting and inhibiting factors of numeracy literacy program in grade IV mathematics learning in elementary schools. This research use descriptive qualitative approach. Data collection uses observation, in-depth interviews, and documentation studies. This study also uses research instruments to guide data collection. This research was conducted in several Muhammadiyah elementary schools, they are SD Muhammadiyah 1 and SD Muhammadiyah 5 Kota Malang. The subjects in this study were the principal as policy makers, class IV teachers, students and parents. The results showed that in learning numeracy literacy was good enough in contextual and problem-based concept planting, but rarely used projection based learning. Facilities and infrastructures that need to be improved, learning motivation is also an inhibiting factor in learning, but there are supporting factors such as the allocation of funds themselves for numeracy literacy programs and the existence of teacher training for literacy programs able to correct existing problems.

1. Introduction

Indonesia has great potential to deliver into developed countries. Indonesia's potential is its main capital. But there is still homework to be done. One of them is the field of education. Quality human resources are demonstrated through an educated community. Through the Organization for Economic Co-operation and Development (OECD) the Indonesian government received appreciation in increasing access to Indonesian education. This can be seen from the increase in the percentage of people who go to school. Since 2000, only 29% of the 15-year-old population attends junior or senior high school. While in 2018, this percentage will increase to 85% [1]

Learning activities are certainly widely obtained in various places and other learning resources, currently education in Indonesia has carried out the National Literacy Movement [2]–[4] or abbreviated as GLN. GLN aims to increase the quality of life of the Indonesian people ranging from family, community, to education through literacy culture. The statement, according to Kemendikbud (2017) states that the purpose of the national literacy movement is to develop a culture of literacy in the education ecosystem, starting from the family, school and community in the context of lifelong learning as an effort to improve the quality of life. According to the results of a survey conducted by the Indonesia National Assessment Program (INAP) in 2016 which measured reading, math and science skills for elementary schools [5] that 77.13% for the mathematics category, 73.61% for science and reading skills 46.83% [6] of the results the survey developed a government literacy culture based on Permendikbud No. 23 of 2015 concerning the growth of manners. This is reinforced by the results of the Program for International Student Assessment (PISA) published in 2019 showing that in a row, the scores obtained from the fields of reading, mathematics and science in 2018 are 371,
Based on the findings in the field, in 2015 [7], where successively reading, mathematics, and science, we scored 397, 386, 403. Of all the scores, Reading has the lowest score decline, and even below the score in 2012, namely 396. The following is a graph of the conditions of literacy from 2012 to 2018.

![Figure 1. Graphic Achievement in Literacy Scores in Indonesia](image)

Source: [9]

From the graphic images obtained by Indonesia in the fields of reading, mathematics and science show that this year has decreased. The results of the PISA data can describe Indonesia's ranking from other countries [10]. The score can also be used to monitor the quality of national education. According to the Minister of Education and Culture said that the results of the 2018 Program for International Student Assessment (PISA) study released in 2019 were a good step through different perspectives. Through these different perspectives, the government formulated a strategic step in the equal distribution of education. Literacy activity is also effective in growing reading ability.

Literacy is a necessity that everyone must have it. In this 21st century, literacy skills need to be improved [11], because literacy is fundamental for students. Literacy is not just reading and writing, according to the times and technology at this time there are some literacy that was developed. This is in agreement with Albert [12] explained that literacy is not just the ability to read and write, but adds knowledge and skills and knowledge skills and abilities that can make people have the ability to think critically able to solve problems in various contexts, able to communicate effectively and be able to develop the potential and actively participate in community livelihoods. Permenbud Policy No. 23 of 2015 concerning the growth of character implements a literacy program to foster character and foster literate individuals.

Now, literacy is not only the ability to read and write, but at this time a lot of literacy skills and skills have been developed to increase knowledge in community and educational attainment. One literacy developed in education is numeracy literacy. Numeracy literacy is applying the concept or calculation operations and mathematical tools in students' daily activities in work or activities that use calculation data in making decisions. Numeracy literacy is defined as a person's ability to use reasoning[13]. Mathematics learning is not only aimed at increasing the ability to count. This ability has not been able to deal with increasingly complex problems in daily activities [14]. Literacy helps to improve counting from an early age with examples of problems that exist in everyday life. This is certainly in line with the current Ministry of Education and Culture program with numeracy literacy. The results of the preliminary study indicate that in SD Muhamadiyah 5 Malang is quite new. The program starts in 2018 in 2 classes, namely class I and class IV. Whereas in Muhamadiyah Elementary School 5 literacy has only begun in 2019.

Learning mathematics and numeracy literacy is not just about memorizing and memorizing. Mathematics learning and numeracy literacy have in common, which involves mathematical abilities, the use of the ability of knowledge and reasoning to solve problems in a variety of circumstances and needs. Mathematical literacy is able to make us a literate who is able to predict and interpret information, solve problems by giving reasons through graphs, tables and communicate using mathematics [15]. Schools use numeracy literacy as an effort to turn individual students into
Numerical or mathematical literacy. Numerical literacy is literacy that is able to make individual literates who can solve everyday problems with mathematical language. Numeracy literacy is knowledge and skills to (a) use various numbers and symbols related to basic mathematics to solve practical problems in various contexts of daily life and (b) analyze information displayed in various forms (graphs, tables, charts, etc.) then uses the interpretation of the results of the analysis to predict and make decisions [16]. The results of the School Literacy Movement (GLS) through 3 stages is carried out so that the sustainability of the implementation runs well and is long-term in its implementation. The stages of literacy in these elementary schools are habituation, development, and learning[17], [18].

The results of previous studies also showed that the application of literacy movements in SD Muhammadiyah 1 Ketelan Surakarta was able to foster a culture of reading and its implementation carried out 15 minutes before learning, literacy activities were not only on general learning but there were some religious activities to foster student religious attitudes[19]. Based on the results of previous research conducted by [20] that numeracy literacy is carried out in the lower classes. Teachers prefer to use computers, pictures and videos in numeracy literacy classes. The implementation of the numeracy literacy program shows that students are educating this activity. Based on the explanation, this research needs to be examined in SD Muhammadiyah as an Islamic-based private school. Literacy program that is being carried out now there are many problems faced, literacy teachers at this stage are still evaluating and developing numeracy literacy to get better. This literacy is also able to bring students to the ease of solving mathematical problems with existing concepts. Numeracy literacy activities are expected students no longer memorize formulas but by learning mathematical concepts with problems that exist in everyday life. The implementation of this research will make it easier to describe how the implementation of numeracy literacy programs relates to mathematics learning in class IV at SD Muhammadiyah 1 Malang and SD Muhammadiyah 5 Malang.

2. Method

The type of qualitative research used is descriptive research. In this study using descriptive qualitative research in order to describe the numeracy literacy program activities in mathematics learning for class IV in SD Muhammadiyah 1 and SD Muhammadiyah 5 Malang.

The role of researchers in this study as participatory observers is that researchers make observations that are within the activities carried out by groups, researchers create their own roles without participating in the interests of the observed group activities. The place of this research is SD Muhammadiyah 1 SD and Muhammadiyah 5 Malang.

The data sources used in this study are primary data sources and secondary data sources. Primary data sources in this study are the principal, grade IV teachers, and grade IV students of SD Muhammadiyah 1 and SD Muhammadiyah 5 Malang. Secondary data sources are sources of data obtained directly from observations made or other sources such as books and documentation.

Collection techniques in this study researchers used interview techniques, observation, documentation studies. Interviews are the main technique in descriptive qualitative research, interviews are conducted by answering verbally with respondents in meetings or face to face. The interview used is structured interview. That is the question the researcher will ask has been prepared beforehand to look for answers in the hypothesis. In this study, interviews were addressed to grade IV teachers and grade IV numeracy literacy teachers conducted face-to-face. The interviews or questions asked are adjusted to the interview guidelines relating to numeracy literacy programs in grade IV mathematics learning at SD Muhammadiyah 1 Malang and SD Muhammadiyah 5 Malang.

Observation technique is done by jumping directly into the field to see or observe the ongoing activities. Observation activities in this research are observing the facilities and infrastructure to support numeracy literacy program activities and its application in learning mathematics in class IV in SD Muhammadiyah 1 and SD Muhammadiyah 5 Malang. While the documentation study in this research was carried out by collecting or analyzing written documents, images and electronics. In this study the documentation study was used to collect documents or letters supporting the numeracy literacy program, taking pictures of numeracy literacy program activities and mathematics learning,
stabilizing pictures of student activities as well as facilities and infrastructure to support class IV numeracy literacy programs.

The instrument in this study used interview guidelines, observation guidelines, study documentation guidelines. Interview guidelines were conducted to present topics about the implementation of numeracy literacy movements in mathematics learning. This interview was sourced from the school principal, class teacher and students. This interview was conducted to answer the problem formulation.

Table 1. interview guide grid

<table>
<thead>
<tr>
<th>Aspects</th>
<th>Indikators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation of numeracy literacy</td>
<td>Literacy program design</td>
</tr>
<tr>
<td>movement in mathematics learning</td>
<td></td>
</tr>
<tr>
<td>in class</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Implementation of literacy program</td>
</tr>
<tr>
<td></td>
<td>Effect of numerical movements on learning</td>
</tr>
<tr>
<td></td>
<td>outcomes of mathematics</td>
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<tr>
<td></td>
<td>Mathematics learning with numeracy literacy movements</td>
</tr>
<tr>
<td></td>
<td>The effect of numeracy literacy movements in</td>
</tr>
<tr>
<td></td>
<td>understanding mathematics learning</td>
</tr>
<tr>
<td>Supporting and Inhibiting Factors of</td>
<td>Students motivation in learning mathematics</td>
</tr>
<tr>
<td>Numeration Literacy Movement</td>
<td></td>
</tr>
<tr>
<td>Implementation in Mathematics Learning</td>
<td></td>
</tr>
<tr>
<td>class IV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Factors supporting numeracy literacy</td>
</tr>
<tr>
<td></td>
<td>movements in mathematics learning</td>
</tr>
<tr>
<td></td>
<td>Factors that inhibit numeracy literacy in</td>
</tr>
<tr>
<td></td>
<td>mathematics learning</td>
</tr>
</tbody>
</table>

Source: [21]

Observation guidelines are carried out to see directly in the field about the implementation of numeracy literacy movements in mathematics learning. These observational guidelines to fit the title of the study at the time the observation was carried out. Guidelines for observing the implementation of literacy movements in learning mathematics are as follows.

Table 2. observation guide grid

<table>
<thead>
<tr>
<th>Aspects</th>
<th>Indikators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation of Class IV Literacy</td>
<td>Appropriate learning theme</td>
</tr>
<tr>
<td>Numeration Movement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The use of learning resources varies</td>
</tr>
<tr>
<td></td>
<td>Student participation</td>
</tr>
<tr>
<td>Implementation of Numeration Literacy</td>
<td></td>
</tr>
<tr>
<td>Movement in Mathematics Learning</td>
<td>The ability of students to solve tasks or problems</td>
</tr>
<tr>
<td>class IV</td>
<td>Contextual and problem-based learning</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Student participation</td>
</tr>
</tbody>
</table>


The ability of students to complete assignments or problems
Student learning outcomes above a predetermined average

Source: [21]

Documentation study lattice to collect and analyze data from sources in numeracy literacy activities in mathematics learning to support literacy movement activities. The study documentation grid is as follows.

Table 3. Study documentation guide grid

<table>
<thead>
<tr>
<th>Aspects</th>
<th>Indikators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation of Class IV Literacy Numeration Movement</td>
<td>RPP in mathematics learning</td>
</tr>
<tr>
<td>Supporting and Inhibiting Factors in the Implementation of the Numeracy Literacy Movement in Mathematics Learning class IV</td>
<td>Number of literacy teachers</td>
</tr>
<tr>
<td></td>
<td>Results of project assignments</td>
</tr>
<tr>
<td></td>
<td>Student learning outcomes</td>
</tr>
<tr>
<td></td>
<td>Learning Resources</td>
</tr>
<tr>
<td></td>
<td>Student library / reading corner</td>
</tr>
<tr>
<td></td>
<td>Wall literacy numeracy magazine</td>
</tr>
<tr>
<td></td>
<td>Cleanliness and neatness of class</td>
</tr>
</tbody>
</table>

The research procedures for the implementation of the numeration literacy movement in Mathematics Learning for Grade IV at SD Muhammadyah 1 Malang and SD Muhammadyah 5 Malang were carried out as follows.

Figure 2. Research Procedure
This study uses descriptive analysis to describe the results of interviews with sources. This study uses descriptive analysis to describe the results of interviews with sources, describing the results of observations made. Data analysis process according to the model of Miles and Huberman that includes data collection activities, data reduction (data reduction), data display (data presentation), and conclusion drawing or drawing conclusions / verification [22]. This research reduces the important data in the processed interviews that have been conducted with the source and reduces the observed observation data. This stage sort out or concurrently important things in the stabilization of data in accordance with the initial topic, namely the implementation of numeracy literacy in learning mathematics grade IV. Presentation of data in this study using descriptive or tables and graphs in explaining the results of data that has been reduced regarding the implementation of numeracy literacy movements in mathematics learning class IV. The last is data conclusions. This stage is to provide conclusions or results obtained after data reduction and data presentation. Shows various results that have been obtained after interviews, observations, documentation studies regarding the implementation of numeracy literacy movements in mathematics learning class IV. The validity of the data in this study uses 3 techniques, namely data triangulation and member checking techniques to test the validity and validity of the data. Triangulation of techniques to test the credibility of the data is done by checking the data to the same source with different techniques. For example data obtained by interview, then checked by observation, documentation. The purpose of member check is to find out how far the data obtained is in accordance with what is provided by the data giver. If the data found is agreed by the data giver means the data is valid, so it is increasingly credible / trusted.

The result of this research is consist of two part. First is implementation of literacy program in mathematics learning and second is supporting and inhibiting factors in the implementation of the numeracy literacy movement in mathematics learning.

**Implementation of Literacy Program in Mathematics Learning**

The application of literacy requires human resources, at Muhammadiyah Elementary School, only 2 teachers started using grade 1 and 4 teachers, but currently there is a literacy team and all teachers are literacy teachers. The initial research activities carried out were interviews with resource persons including school principals, literacy teachers, IV grades mathematics teachers. Interviews to find out information on the implementation of numeracy literacy movements in learning mathematics. The interview was conducted in a structured manner after the interview was carried out observation, documentation study.

Numeracy literacy is the effort of the Ministry of Education and Culture to make students literate-cultured individuals in the daily lives of students, especially in terms of calculation. This was conveyed by the principal after an interview.

“Literacy culture is carried out to foster student interest in reading and introduce students to the literacies in school” (Interview/KS/01112019)

The results of interviews with the school principal illustrate the purpose of the numeracy literacy movement in SD Muhammadiyah 1 and SD Muhammadiyah 5 Malang. Students are introduced and one of the efforts to make individuals literate culture. Literacy is also one of the school's efforts to foster student interest in reading. The application of numeracy literacy in schools has indicators in its implementation, namely indicators on the basis of class, school, and community [16]. The application of classroom-based literacy is done by increasing efficiency and applying numeracy in learning. Numeracy literacy in this class helps develop mathematical abilities by contextual presentation [23]. While the implementation of school numeracy literacy in the two elementary schools is demonstrated through the increasing number and variety of numeracy literacy reading materials. For the community base, literacy literacy is demonstrated by the involvement of parents in developing numeracy literacy in schools. For example, students are allowed to bring a reading book from home. The book has also been communicated by parents and teachers through a contact book. This parental support is important given that the child's learning environment is not only in school. At home parents can provide relevant reading resources for students to read [24].
Based on the findings in the field, in SD Muhammadiyah 1 and SD Muhammadiyah 5 Malang have implemented numeracy literacy movement since June 2018 and February 2019. The numeracy literacy movement has been implemented in mathematics learning in class. This is in accordance with the Ministry of Education and Culture Regulation No. 23 of 2015 concerning the Development of Characteristics to build a culture of literacy in all school educational institutions.

The implementation of numeracy literacy in SD Muhammadiyah 5 Malang City has been carried out according to schedule every day. Implementation of numeracy literacy movements applied to mathematics learning is very important for teachers to motivate students in understanding mathematical material. Problem-based methods and projections are one way to foster student enthusiasm for learning. On a classroom basis the teacher applies problem-based or projection learning. Findings in the field when observing teachers more often use the problem base and rarely use the project base. The results of interviews with school staff also found that learning was not entirely problem based or projected.

Numeracy literacy is also applied in learning mathematics in class. Mathematics learning is problem based in learning. Students are more active in problem based learning with numeracy literacy and problem based mathematics learning. The inculcation of mathematical concepts with problems makes it easier for students to solve the problem of numbers in their students' daily lives.

The application of numeracy literacy culture to thematic learning has been carried out in accordance with numeracy literacy indicators. According to [16] numeracy literacy indicators that are implemented in schools are one of them on a class basis:

a. Teacher Training in Mathematics and Non Mathematics

Implementation of the literacy movement is supported by the presence of teachers who have participated in literacy training programs. Mathematics and non-mathematics teacher training aims to strengthen facilitators in learning literacy that is outside the subjects as well as in the subjects.

b. Problem Based Learning and Project Based Mathematics Learning

Interviews with several sources found that students were more motivated when learning numeracy or mathematical literacy on a problem basis, so the teacher did not use projection based learning. According to the opinion [25] problem-based learning is a learning approach that uses daily activities as a context for students in solving problems, as well as providing concept knowledge in a learning material. The finding of the above results is that numeracy literacy learning uses problem-based learning in providing a learning material and does not use projection based learning for student skills.

c. Improved Mathematical Value

The numeracy literacy program in mathematics helps in students' readiness in accepting mathematics material that will be given by the teacher. Improved results of some students in the class prove that the existence of numeracy literacy in mathematics learning helps motivate students in learning activities. This is in accordance with [26] the movement of school literacy towards learning outcomes shows that the results are not significant in improving learning outcomes so that learning outcomes can be influenced by internal and external factors.

Supporting and Inhibiting Factors in the Implementation of the Numeracy Literacy Movement in Mathematics Learning

The results of the numeracy literacy movement research data contained supporting and inhibiting factors, the results of the study were discussed as follows. The numeracy literacy program at the Muhammadiyah elementary school has supporting factors in its activities. Facilities and infrastructure certainly become a major factor in supporting learning or activities. [27] They show that facilities and infrastructure have important factors in learning activities in addition to the problems faced by fewer students, facilities and inscriptions that make them also make learning activities interesting and learning outcomes increase. Another supporting factor is funding to add and maintain existing facilities and infrastructure. Funding in education is one of the factors to add and maintain facilities and infrastructure, teacher allowances and so on, if there is no adequate funding for teaching and learning processes and school progress is not met in serving the community to be educated[27].
Supporting factors carried out in the literacy of facilities and infrastructure numeracy is an important factor in the activities of a learning activity. Funding is also an important factor in the school environment or education in serving teaching and learning activities. Both of these supporting factors affect the quality of schools in serving education after other supporting factors.

One factor in the implementation of numeracy literacy is one of students' motivation to learn which is the main factor in the learning process. Increase student motivation by using stories in conveying student material will arise a sense of curiosity then various questions arise that lead to student activity in the teaching and learning process [28]. The application of numeracy literacy that has implemented problem-based learning with stories around is able to motivate students. The reading corner or mini library is still not well established in the means of numeracy literacy, it includes factors inhibiting numeracy literacy. The teacher in increasing students' reading interest by innovating to create a mini library in the classroom [29]. This opinion reinforces that in the literacy movement aimed at making literate culture there should be a reading corner to increase reading interest, especially the numeracy literacy of students with different references every month so that students don't get bored with the desire to read.

3. Conclusions

Based on the results of the research data concluded. The implementation of numeracy literacy programs and mathematics learning are done in contextual and problem-based concept planting, but teachers rarely use projection-based learning in instilling learning concepts in students. The application of numeracy literacy in schools of SD Muhammadiyah 1 and SD Muhammadiyah 5 Malang have indicators in its implementation, namely indicators on the basis of class, school, and community. Field findings during active student observation in participating in learning mathematics or literacy, this shows that the literacy movement is able to motivate student learning. The inhibiting factors in the implementation of the literacy program are (1) from the lack of facilities and infrastructure, (2) students' learning motivation is also an inhibiting factor in the implementation of the literacy program. Supporting factors of the literacy program are (1) the existence of own funding sources for the literacy program, (2) the existence of teacher training for the literacy program which will later be able to correct the deficiencies in the implementation of the numeracy literacy program. The result of the research

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In arranging this artikel, a lot of people have provided motivation, advice, and support for the researcher. In this valuable chance, the researcher intended to express his gratitude and appreciation to all of them. First, the researcher presents his sincere appreciation goes to the dean of Faculty of Teacher Training and Education, University of Muhammadiyah Malang. Also this research would not have been possible without the help, support and advice of my co-worker in Primary Teacher Education Department. I gratefully thank to the principal of SD Muhammadiyah 1 and SD Muhammadiyah 5 Malang for allowing me to conduct the research there. Finally, I would like to thank everybody who was important to the successful realization of this research.

5. References

Based on the findings in the field, in implementing numeracy literacy in schools of SD Muhammadiyah 1 and SD Muhammadiyah 5 aimed at making literate culture there should be a reading corner to increase reading interest, corner or mini library is still not well established in the means of numeracy literacy, it includes factors of student activity in the teaching and learning process. The application of numeracy literacy that have been possible without the help, support and advice of my co-worker in Primary Teacher Y. Wandasari, “Implementasi Gerakan Literasi Sekolah (GLS) Sebagai Pembentuk Pendidikan Berkarakter,” JMKSP J. Manaj. Kepemimp. Dan Supervisi Pendidik., vol. 2, no. 2, 2017.

One factor in the implementation of numeracy literacy is one of students' motivation to learn. The result of the research analysis of learning model of Q.S. Al Ma’un by K.H. Ahmad Dahlan in the film “sang Pangeran” shows that the use of projection based application of numeracy literacy in schools of SD Muhammadiyah 1 and SD Muhammadiyah 5 has been implemented numeracy literacy movement since June 2018 and February 2019. The numeracy literacy program. Supporting factors of the literacy program are (1) the existence of own funding and infrastructure, teacher allowances and so on, if there is no adequate funding for teaching and learning process, (2) the existence of facilities and infrastructure. Funding in education is one of the factors to add and maintain facilities and infrastructure, (3) the existence of supporting programs, such as literacy program. Supporting factors carried out in the literacy of facilities and infrastructure numeracy is an application of numeracy literacy in schools of SD Muhammadiyah 1 and SD Muhammadiyah 1 on a class basis: activities as a context for students in solving problems, as well as providing concept knowledge in a student activity in the teaching and learning process. The application of numeracy literacy that have been possible without the help, support and advice of my co-worker in Primary Teacher Y. Wandasari, “Implementasi Gerakan Literasi Sekolah (GLS) Sebagai Pembentuk Pendidikan Berkarakter,” JMKSP J. Manaj. Kepemimp. Dan Supervisi Pendidik., vol. 2, no. 2, 2017.

Characteristics to build a culture of literacy in all school educational institutions. The numeracy literacy movement has been implemented in mathematics learning in class. This is in accordance with the literacy program. Supporting factors of the literacy program are (1) the existence of own funding and infrastructure, teacher allowances and so on, if there is no adequate funding for teaching and learning process, (2) the existence of facilities and infrastructure. Funding in education is one of the factors to add and maintain facilities and infrastructure, (3) the existence of supporting programs, such as literacy program. Supporting factors carried out in the literacy of facilities and infrastructure numeracy is an application of numeracy literacy in schools of SD Muhammadiyah 1 and SD Muhammadiyah 1 on a class basis: activities as a context for students in solving problems, as well as providing concept knowledge in a student activity in the teaching and learning process. The application of numeracy literacy that have been possible without the help, support and advice of my co-worker in Primary Teacher Y. Wandasari, “Implementasi Gerakan Literasi Sekolah (GLS) Sebagai Pembentuk Pendidikan Berkarakter,” JMKSP J. Manaj. Kepemimp. Dan Supervisi Pendidik., vol. 2, no. 2, 2017.

It is possible to make learning practices in mathematics education department of Universitas Muhammadiyah Malang, 2018. The influence of online learning platform models during the COVID-19 outbreak on college student activity in the teaching and learning process. The result of the research analysis of learning model of Q.S. Al Ma’un by K.H. Ahmad Dahlan in the film “sang Pangeran” shows that the use of projection based application of numeracy literacy in schools of SD Muhammadiyah 1 and SD Muhammadiyah 5 has been implemented numeracy literacy movement since June 2018 and February 2019. The numeracy literacy program. Supporting factors of the literacy program are (1) the existence of own funding and infrastructure, teacher allowances and so on, if there is no adequate funding for teaching and learning process, (2) the existence of facilities and infrastructure. Funding in education is one of the factors to add and maintain facilities and infrastructure, (3) the existence of supporting programs, such as literacy program. Supporting factors carried out in the literacy of facilities and infrastructure numeracy is an application of numeracy literacy in schools of SD Muhammadiyah 1 and SD Muhammadiyah 1 on a class basis: activities as a context for students in solving problems, as well as providing concept knowledge in a student activity in the teaching and learning process. The application of numeracy literacy that have been possible without the help, support and advice of my co-worker in Primary Teacher Y. Wandasari, “Implementasi Gerakan Literasi Sekolah (GLS) Sebagai Pembentuk Pendidikan Berkarakter,” JMKSP J. Manaj. Kepemimp. Dan Supervisi Pendidik., vol. 2, no. 2, 2017.

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