

## Calistung Learning Effectiveness Using Zoom Cloud Meeting Video for Students in Elementary School During Covid-19 Pandemic

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### ABSTRACT

During the Covid-19 pandemic, learning loss is vulnerable to occur in early grade students, as well as what happens to learning basic skills in Calistung. This study aims to determine the effectiveness of e-learning learning the Covid-19 pandemic in Indonesian using Zoom Cloud Video Meeting. The approach that we used in this study is quantitative which is the type of research is designed with a pretest-posttest control group. The results showed that the average effectiveness of the students in Elementary School was categorized as still effective despite changes in learning time, and the use of learning media. Students understanding of the material for the Calistung learning can be improved by providing material via games or youtube which is done online from using the Zoom Cloud Meeting Video application with educators. The results of the research show that the average posttest score of students is 77.77% greater than the average pretest score of 67.93% so the difference is 9.84%. Therefore, Zoom Cloud Video Meeting can increase students' in Calistung learning.

**Keywords:** Calistung learning; Elementary School Students; Zoom Cloud Video Meeting; Pandemic Time.

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### INTRODUCTION

The competence of reading, writing, and counting (Calistung) as a basic lesson seeks to equip and provide basic understanding for students for the next learning by means of various basic skills of reading, writing and arithmetic.

Elementary school students are those aged between 6-12 years or commonly referred to as the intellectual period and the golden age. Children's knowledge will increase rapidly with age, along with increasing skills that are increasingly diverse. Children's interest in this period is mainly focused on everything that is dynamic or moving. The implication is that children tend to carry out various activities that will be useful in the process of later development.

Elementary school children in grade I are in the early age range and are in the concrete operational stage where children begin to show the following learning behaviors: (1) Begin to view the world objectively, shift from one aspect of the situation to another reflectively and look at the elements simultaneously. , (2) Starting to think operationally, (3) Using operational thinking to classify objects, (4) Forming and

using connectedness rules, simple scientific principles, and using causal relationships, and (5) Understanding the concept of substance, volume of liquid, length, width, area, and weight. (Trianto, 2011:11)

The success of Calistung learning in the classroom cannot be separated from how a teacher is able to convey material well and can be understood by students, such as the teacher's ability at the beginning of learning, in the implementation of learning and at the end of learning. How can a teacher do that well? In order for everything to go well, a teacher must also have good cooperation with fellow teachers, students and parents. Communication relations between fellow teachers are not well maintained, and between one teacher and another are still individualistic. The problem of reading, writing, and arithmetic or Calistung is indeed a phenomenon in itself. Now it is becoming increasingly hot to talk about parents who have pre-school age children, they are worried that their children will not be able to follow the lessons at school later if they are not equipped with reading, writing, and arithmetic skills from the start.

Learning difficulties that occur during the current Covid-19 pandemic are that many students still find it difficult to study independently. Research conducted by Purwanto et al., (2020) states that one of the obvious impacts is the learning difficulties experienced by students during the teaching and learning process at home. Students feel pressured when studying remotely, because students tend to feel forced, also because of inadequate facilities and infrastructure at home, students tend to have difficulty getting access to learning with the help of technology. Wardani, Anita, & Ayriza (2020) also describe the problems in distance learning that are also experienced by parents, the most common obstacles that arise are both from their own parents who do not understand the material so they cannot guide their children's learning at home, it is difficult to grow enthusiasm and motivation to learn in children, the difficulty of dividing time between parental work and mentoring children, parents' limitations in operating gadgets, limited internet coverage, and parents who are less patient in accompanying children during online learning during the covid-19 pandemic.

The effectiveness of learning on student learning outcomes can be categorized into 3 indicators, namely: 1) learning effectiveness as measured by student achievement 2) learning efficiency as measured by learning time or also from learning costs, and 3) learning attractiveness as measured by the student's willingness to continuous learning. (D. Tarigan et al 2015). The most widely used platform in the world of education today during the Covid-19 pandemic is Zoom Meeting. The teaching and learning system uses the Zoom Cloud Meetings application, which is a system that is applied online via a smartphone or computer device. This is as the spread of Covid-19 in the city of Bandung, but the learning system is expected to continue to run well and smoothly even though it is online. One of the reasons the school uses the Zoom Cloud Meetings

application is so that students and teachers can interact to carry out the teaching and learning process from home. In addition, the Zoom Cloud Meetings application has supporting features, such as the share screen feature so that teachers can display their presentation slides through the feature, then the video feature can be used so that teachers can see students while they are studying, and audio features so that teachers and also the students can interact through the audio feature. Through Zoom, teachers can directly communicate visually, by providing various subject matter with direct instructions to their students. Switch to an inland city, a city that is still in development. What if this is something you want to hold, namely learning from home.

## **THEORITICAL FRAMEWORK**

The effectiveness of Calistung learning with the Zoom Cloud Video Meeting platform can be seen from how the learning that has been given by the teacher can be digested well by students, and students are able to implement what they have learned for their lives. Calistung learning which is understood as basic learning for elementary school students to make it easier for students to get further learning should no longer be useful or not but has reached the stage of how to convey accompanied by appropriate learning media so that students are able to understand well the learning given.

Calistung in indonesia is an acronym for reading, writing and arithmetic. Calistung learning for elementary school students is a basic factor to gain understanding and subsequent learning. The use of learning media to read, write, and count (Calistung) is very effective in generating learning motivation. Learning media is a means to manipulate abstraction concepts from information to be closer to previous learning experiences. For example, to teach the concept of geometry to students which will be difficult if only through abstract objects, but if it is illustrated in visual form or concrete

objects, students will be easier to understand (Nur & Nurvitasari, 2017); (Supriyadi & Nur, 2019).

As is the case with Calistung, students who only know the concept of reading through reading without any letter or word recognition will find it very difficult. The concept of calculation if it is not preceded by the introduction of numbers or objects that illustrate the meaning of numbers, it will certainly not be able to produce good numeracy skills. The results of Hermansyah's research (Hermansyah, 2017a) state that children's understanding of reading will be better if it begins with their knowledge of speaking experiences in the surrounding environment. Children need to be brought closer to real situations and have meaning in their lives. (Nur, 2016) revealed that if students are given understanding by learning something contextual (according to the real world) it is easier for students to process abstraction of information than to obtain it through teacher explanations. Reading, writing and arithmetic are basic skills needed by every human being. The ability of Calistung cannot be given directly without a stimulus. According to (Nnggaruaka, 2017) a person in learning a language must master speaking skills according to their natural conditions. Speaking is an instrument in stimulating one's cognition to read and write. This is because speaking is a physical activity that is carried out verbally, while reading and writing are mental activities that require a lot of abstraction.

Elementary school students are unable to read and write due to slow verbal responses being acquired into abstract symbols in the form of letters and sentence signs. Although students are able to speak well, if their ability to understand letters is slow, it will result in a lack of reading and writing skills. Meanwhile, (Nur & Massang, 2016) stated that students' mathematical abilities were influenced by family and self factors. Students who are lazy to count or consider mathematics less useful in their lives can make someone unable to

count. In line with this, (Nnggaruaka, 2017) found that someone who is already in the adult stage, but has not been able to read and write is more influenced by environmental factors.

The "Cantol Roudhoh" method is a developed method based on the principle of "play while learning" by maximizing visual, auditory, and kinesthetic aspects in which there are elements of color, image tone, rhythm, and comfort. These three aspects combined with quick memorization, namely the "hook method" which developed in quantum learning. This method is proven to be effective applied to pre-school children and in accordance with child development. On average, in 32 meetings the children have can read fluently.

The target of Calistung's research activities at SD Terpadu Krida Nusantara is to find out the effectiveness that occurs regarding Calistung learning if the implementation of learning is carried out using the Zoom Cloud Video Meeting platform application. This is the basis for conducting research on the effectiveness of Calistung learning using the Zoom Meeting platform.

There are 3 important elements contained in Calistung learning, including:

- (i) Beginning reading skills are more skill-oriented reading at the basic level, namely literacy skills. the ability to change symbols write into meaningful sounds accompanied by an understanding of the meaning of the symbols. With the provision of this discourse literacy ability, then hild are understood with a variety of information and knowledge from various sources.
- (ii) Writing is an expression/expression of spoken language into a language form of scratches / scribbles. In every human, possession of basic skills this begins when the child pretends to write on paper, sand or media others in the form of doodles until the child is able to imitate the shape real writing. Notes,

every tone and silence mark have their own differences in tone form, tone name and tone value.

- (iii) Basic Computing Operation Concepts is the underlying concept basic arithmetic operations which include addition (addition), subtraction, multiplication, and division (Ruseffendi, in Romi, 2010:17). Mastery to many concepts, enabling one to solve problems better because to solve problems need rules, and the rules are based on the concepts they have.
- (iv) Cantol Roudhoh method which is considered appropriate with education and training development of low-grade elementary school children and so that in learning they can make children interested and children want to linger to learn reading, and can create an interesting and pleasant. Learning calistung in lower grade elementary school children must be in a fun method. Do not burden students by providing full and boring learning as learning is usually given to adults.

## **METHODS**

The method that the researcher uses in this research is the method with the stages of observation, socialization, mentoring training and monitoring and evaluation.

### **a. Observation**

The process of collecting data for students who are still having difficulties with Calistung and students who are not yet capable of Calistung. The researcher conducted an audience with class teachers, parents and the school in analyzing the students' most pressing needs to deal with the Calistung problem. After the data is collected, the next step is to analyze the data by using the Phenomenological Analysis method Interpretive (AFI).

In Smith (2009:97) explained that AFI aims to reveal in detail how participants make sense of the personal world and socially by

emphasizing the perception or an individual's personal opinion about the object or events. AFI research carried out with a small sample size. According to Smith (Wijaya, 2015:34) describes the stages of AFI that implemented as follows: 1) Reading and re-reading, researchers read and read return to explore the transcript that has been obtained; 2) Initial noting, researchers are looking for meaningful, important or interesting text from interview transcripts; 3) Developing Emergent themes, develop the emergence of themes by reading the transcript over and over again; 4) Searching for connections across emergent themes, looking for relationships between themes that emerged after the researcher determined Sorted theme subcategories chronologically and found 21 meanings, with 3 subcategories into 2 related themes; 5) Moving the next cases, i.e. moving from one transcript interview with one correspondent to subsequent transcripts of correspondence; and 6) Looking for patterns across cases, at the stage. Finally, this analysis looks for emerging patterns between cases/participants.

### **b. Socialization**

In this activity, interviews were conducted with elementary school teachers, parents and school officials. The purpose of the socialization is so that information on activities can be conveyed to all elements and students who need training and assistance in learning Calistung.

### **c. Training and mentoring**

Training and mentoring activities are carried out with the first stage, namely training and mentoring for students who are still experiencing Calistung problems. To achieve the objectives of implementing the activity, students are involved in the Calistung learning mentoring process.

### **d. Monitoring and Evaluation**

The form of monitoring carried out is to ensure that elements support the

implementation of activities by being directly involved in the Calistung learning training. Obstacles and obstacles encountered as soon as possible are discussed to obtain the best solution. Meanwhile, the form of activity evaluation is carried out by providing question and answer questions using literacy texts.

## RESULTS AND DISCUSSION

### Demography

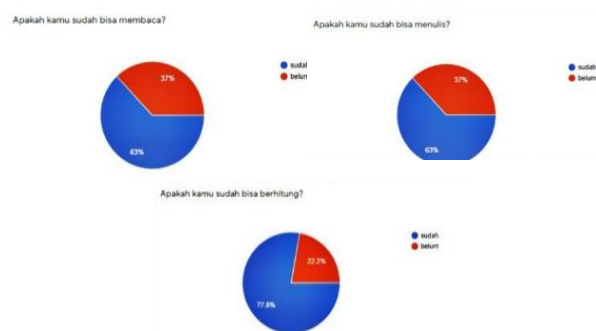
The research was conducted at SD Terpadu Krida Nusantara and was presented to twenty students with the main focus on improving Calistung learning to ten students who still lacked understanding of Calistung learning with details four men and six women.

### Results of Observation, Socialization, Training and Assistance as well as Monitoring and Evaluation

The implementation of the activity begins with conducting an audience with the school regarding the abilities of grade I students who have and who have not met the ability to read, write and count. The researcher discussed with the school what methods, media and approaches were appropriate to the characteristics of students to encourage students to be able to increase the effectiveness of Calistung learning.

The implementation of the next activity is to carry out an online survey in the form of giving basic questions through the Google Form platform to all students who are considered to have not fulfilled the Calistung learning. At this stage, it is expected to get data as many as ten names of students. The following is a picture of the data we have obtained. Based on the survey results obtained data from a total of twenty students, as many as six students who are still not able to do Calistung, nine students are able to do Calistung but are still in the not-too-fluent

stage, and the remaining five students can do Calistung smoothly.



**(Figure 1. Results of the Student's Calistung Ability Survey)**

After conducting further hearings with the homeroom teacher and parents, an agreement on the schedule for the implementation of the activities was obtained as follows:

**Table 1. Schedule of Calistung Learning Activities through Zoom Cloud Video Meeting**

Tanggal	Kegiatan
August 20th 2021	Discussion of Calistung media that will be used during learning activities
August 22nd-30th 2021	Implementation of Calistung learning using Zoom Cloud Video Meeting
September 1st 2021	Student monitoring via Zoom Cloud Video Meeting regarding progress
September 2nd-4th 2021	Activity evaluation and follow-up

Based on discussions with the homeroom teacher, an agreement was obtained regarding the Calistung media to be used, which is the Cantol Roudhoh method which is also interspersed with the application of learning using the Youtube and Games platforms. In the activities, simple tools such as letter cards, picture cards, calistung books, counting sticks, and word writing media are also used, all of which will be contained in learning using the Zoom Cloud Video Meeting platform. The following is an example of Calistung learning and media :



Figure 2. Media Write words



Figure 3. Counting sticks

Monitoring implementation as an effort to continue Calistung learning activities is still carried out online with the Zoom Cloud Video Meeting platform. In ten days of online learning of Calistung, students have shown positive results. After being given a lesson that contains Calistung learning, it also

includes learning to use learning tools and media to support learning. The following is an example of a Calistung learning activity using the Zoom Cloud Video Meeting platform which was carried out for ten days in a row.

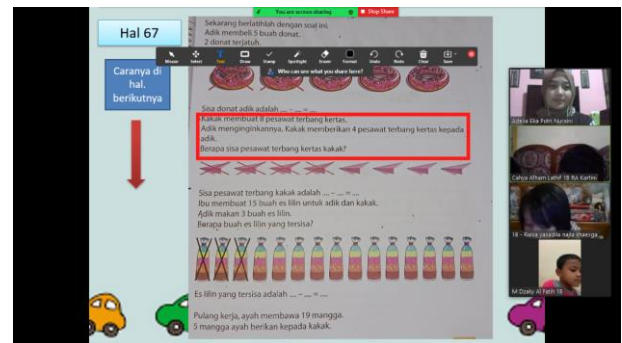


Figure 4. Learning calistung the main material is counting



Figure 5. Learning calistung the main material is reading

The most prominent thing is that students feel happy and not bored with the learning given. They tend to really enjoy the delivery of the material provided by using the tools and media that have been provided. The following are the results of increasing the ability of Calistung experienced by grade I students.

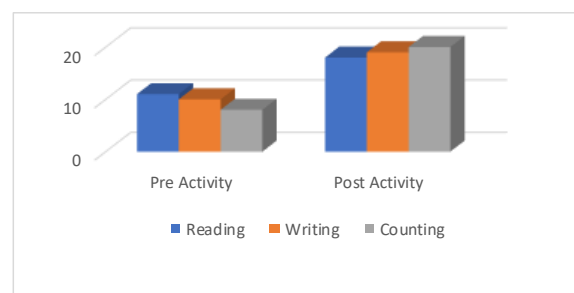


Figure 6. Improving Calistung's Learning Ability

The increase in Calistung learning ability obtained after implementation and mentoring is quite high and produces a significant level of effectiveness, especially for class I students. Previously only ten students who were able to read now increased to eighteen students, nine students who were able to write had now increased to nineteen students and previously a number of eight students who were able to count had now increased to all students or as many as twenty student.

Even though the condition of students who are now called capable for Calistung is quite rapidly increasing, the implementation must always be applied because it is feared that the increase will decrease again.

Education is the spearhead of changing the condition of a nation towards a better and dignified direction. People who have understood the importance of education have actually found the ruins of civilization and have hope to build a brighter future. Calistung learning ability improvement training carried out as an effort to eradicate dark spaces as well as being the basis for learning to get the next learning ticket is the first step to ensure that there is no longer a gap in education in this country. The development of students' knowledge and understanding in learning Calistung is expected to be a gateway for the advancement of a better world civilization.

## **CONCLUSION**

The conclusion in the research that has been carried out is that Calistung learning using the Zoom Cloud Video Meeting platform with the subject of class I with the number of ten students can improve learning outcomes and effectiveness for students by up to 47% from the previous average of 48% to an average of 95%. That way, researchers can conclude that students' understanding of Calistung learning can be used with the Zoom Cloud Video Meeting platform.

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## **AUTHORS' NOTE**

The authors declare that there is no conflict of interest regarding the publication of this article. The authors confirmed that the paper was free of plagiarism.

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