

# Flipped Classroom Learning Model to Increase Learning Passion at the Demangan State Elementary School

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## ABSTRACT

The flipped classroom learning model is one of the newest digital-based learning models currently used in Demangan state elementary schools with online learning by using learning videos as learning media outside the classroom. This research is a literature review through searching accredited journal sites such as Google Scholar, DOAJ, ProQuest, ResearchGate, and ScienceDirect with the keyword flipped classroom learning model to increase the value of love studies for the 2017-2021 period. The data obtained from 18,029 journals were systematically reviewed and compiled. Then identified based on keywords which were then filtered so that 40 journals were obtained based on the criteria of elementary school students, filtered again for eligibility, and obtained a total of 10 articles that met the requirements for a review. The flipped classroom learning model can increase the value of students' love for character learning so that students have skills according to the 21st century.

**Keywords:** *Flipped Classroom, Learning Passion*

## 1. INTRODUCTION

The role of education is very necessary as an important investment to face the challenges of education in the 21st-century where literacy learning skills and learning skills are needed which include learning activities characterized by collaboration, communication, innovation, problem-solving, critical thinking, and creative thinking. This is by future demands to produce productive generations who have great quality and skills to fight skill challenges in the 21st century or the industrial revolution 4.0. Education at schools is studying the subject matter and instilling character in students. Learning experiences or learning experiences become an important process in character building. In a survey conducted by The World's Most Literate Nations in 2016 with UNESCO, Indonesia's lowest literacy was ranked 60 out of 61 countries surveyed which showed low interest and absorption in reading.

In line with the results of the PIRLS survey (Progress in International Reading Literacy Study) on

reading literacy for elementary school students PIRLS using a basic assessment instrument on reading ability (literary reading) and the process of understanding it (informational reading), reading literacy competence of students in Indonesia on the results the international survey is very low ranking 41 out of 45 countries surveyed. The survey results report that there is a fairly large gap between literary reading competence and reading to gain understanding [1].

The results of PISA (Program International Student Assessment) on the results of the evaluation on the effectiveness of an international standard education system that focuses on reading, math, and science literacy achievements of students in schools. The results of the 2000-2018 survey data have shown that the reading literacy of students in Indonesia is always below the international average, even the last survey shows that Indonesia's literacy competence has decreased significantly from before [2]. The Education Assessment Center of the Ministry of Education and Culture (PUSPENDIK KEMENDIKBUD) implements a PISA equivalent program called the Indonesian

National Assessment Program (INAP) or the Indonesian Student Competency Assessment (AKSI) with one of the instruments being reading skills, students who take part in the program these are students of grade IV Elementary School. Overall, the percentage on the results of the reading skill instrument was found to be 46.83% in the poor category, 47.11% in the sufficient category, and 6.06% in the good category. Judging from the situation on the ground, precisely at the demangan state elementary school. Based on the results of the questionnaire, 56.3% of the willingness and interest in reading were categorized as low. This fact shows the low reading culture, therefore the cultivation of a reading habit must be implemented from an early age, especially during elementary school, in this case reading literacy and understanding information are skills that are very much needed in the 21st century, where information technology is an integral part in life.

Reading is an important part of learning activities. Learning is a change in behavior with the emergence of a series of learning activities in the form of reading, listening, imitating, observing, and so on. In the era of Information and Communication Technology, what can be offered to overcome the problem of low interest in learning is to use one of the latest digital-based learning models that use learning videos as learning media outside the classroom, namely the flipped classroom learning model.

A study reported stated that the use of instructional videos can make teaching and learning activities more effective and interesting [3]. In addition, students will also get used to studying learning materials independently, students' self-confidence will also increase when they come to class or when given assignments by the teacher, students can do assignments well because considered to have mastered some of the learning material. Another study states that students are successful in improving their learning achievement with this flipped classroom learning model, one of the reasons is because students have prepared learning materials before coming to class [4].

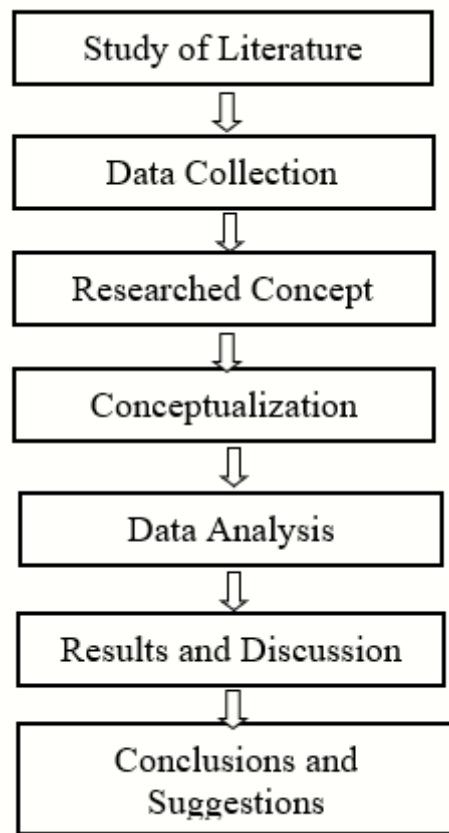
Based on this description, the author is interested in conducting a literature review of articles that examine the flipped classroom model increased the value of the character of love study.

**2. RESEARCH METHOD**

This study uses a literature review method. A literature review is a review of the overall research that has been done on a particular issue to show the reader what is known about the issue under study and what is not known to seek reasons for research that has been done or ideas for further research [5]. Literature studies can be obtained from various sources, namely books, documentation, journals, libraries, or the internet. The

library study method is a series of activities related to the method of collecting data by reading and then recording library results and processing written materials that can be used as literature [6].

The data used in this study comes from research results that have been published in online journals nationally and internationally. In conducting this research, the researcher tried to find journals published on the internet using Google Scholar, DOAJ, ResearchGate, ProQuest, and ScienceDirect with the keywords: flipped classroom learning model to increase the value of love of learning. Systematically the steps used by the author in the literature review method are as follows:



**Figure 1** Literature Review Flow

The literature review begins by looking at the written journals that are sequentially considered from the most relevant to the least relevant. Then start reading the journal abstract first to be able to provide an assessment of the problem to be discussed with the problem to be solved in a journal. Important points need to be considered in relevance to the research problem, so as not to get caught in the element of plagiarism and the author also needs to pay attention to sources of information and include a bibliography. Make citations and notes of information arranged systematically so that when writing is needed it will be easily seen when needed [7].

Each journal that has been selected by the author is based on criteria and conclusions are made to explain the flipped classroom model to increase the value of the love of learning character, then the author makes conclusions from the results of the literature. The author begins to identify in the form of a summary in the form of a table containing the writing design, samples, instruments, years of research, and research results. After the results of the research studied were collected, the authors analyzed the flipped classroom model to increase the value of the character who likes to learn in

The results after the application of the criteria for fourth-grade students left 40 journals. The 40 journals were tested for feasibility by reading them completely and thoroughly. Journals that are articles or literature reviews, journals with the same title, and journals that are not by the author's goals will be eliminated. To speed up the process of journals elimination, an objective evaluation of the contents of journals that are supportive or debilitating is carried out, using skimming (gliding) to focus on reading the journal's core by reading quickly and capturing the essence of the journal. If the use of skimming is still not able to capture the

**Table 1.** Elementary School Student Criteria

Criteria	Elementary School
Period	The maximum journal publication period is 5 years (2017-2021)
Language	Indonesian and English
Subject	Grade IV Elementary School Students
Article Type	The original article is not in the form of a non-original publication such as a letter to the editor, not only in the form of an abstract or a book, full text is available
Theme	Flipped Classroom Learning Model to Increase the Value Character Love Study.

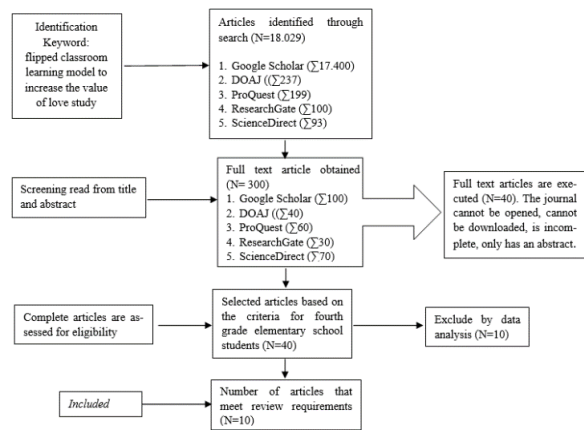
the form of discussion.

Research journals that have met the criteria are collected and summarized according to the journal containing the author's name, year of the journal published, research objectives, samples, instruments, and research results so that the results for abstract analysis and the full text of the journal to be read and observed are clearer. Journal summaries are then analyzed according to the content contained in the research objectives and research results. The analytical method used by the author is journal content analysis.

**3. RESULT AND DISCUSSION**

Based on the journal search results from Google Scholar, DOAJ, ProQuest ResearchGate and ScienceDirect search engines with the keyword flipped classroom learning model to increase the value of love study, there were 18,029 journals. Google Scholar 17,400 journals, DOAJ 237 journals, ProQuest 199 journals, ResearchGate 100 journals, and ScienceDirect 93 journals. The journals are then screened by paying attention to the suitability of the contents, through a quick reading of the abstract, heading, subheading, and document statements or important sentences contained in the abstract and introduction of the journal, plus taking into account the conditions of the journal such as the journal can't be opened, cannot be downloaded, incomplete, only has abstract, journals containing only one keyword and are not included in the journal review so that through the screening, 300 journals are obtained.

intent of the journal author, then the reading is repeated, in-depth, and focused on the research methods and results, and several 10 journals are created according to the journal. The appropriate journals are then analyzed.



**Figure 2** Articles Search Process

Based on several journals reviewed, most of them apply the flipped classroom learning model as one of the learning models that can improve the character of love study in students. Increasing the character of the love of learning can improve effective communication, motivation, academic values and be able to train students to be more confident in independent learning based on students' cognitive styles strengthening character education [8], critical thinking skills [9], [10], improve reasoning abilities [11], increase creativity and learning outcomes [12]; [13], active learners with the

design of a flipped classroom-based learning environment design [14], reading comprehension skills [15] being able to achieve 21st-century skills [16].

The flipped classroom is a learning model in which students are given teaching materials, learning videos, or interesting learning tools so that students are expected to be interested and motivated in learning so that their learning skills increase. stated that the flipped classroom is part of the blended learning rotational model approach where before direct learning begins, students receive direct instruction via online video so that when the class starts, students can complete their assignments [17]. In line with the opinion expressed by "As a result of the flipped classroom, students find more opportunities to get engaged with more activities in class and to have discussions about the concepts involved" [18]. This shows that with the flipped classroom, students get more opportunities to be more involved in learning activities by discussing ongoing learning.

This flipped classroom-based learning utilizes modern technology in the form of learning videos that can be accessed anytime and anywhere. If there is a material that has not been understood, students can replay the learning video in that section and can save the learning video so that it can be played whenever needed. The flexibility of this learning model allows students to learn at their own pace and convenience. This is in line with the advantages of this flipped classroom model, namely: 1) students can be independent in studying subject matter at home, 2) students learn subject matter in situations and conditions that are comfortable for students in other words create their learning environment, 3) When students have difficulty doing practice questions in class, the teacher can give maximum attention to helping students, 4) students can learn various learning content from videos, books or websites. The flipped classrooms are effective to improve creative attitude, responsibility, and love to learn skills. Flipped classrooms can increase students' self-confidence and learning outcomes because flipped classrooms can increase interaction between teachers and students and vice versa between students and teachers. The learning time in class is more effective and efficient and increases independent learning abilities [19].

The flipped classroom model approach is divided into three activities, namely before class starts, when class starts, and after class ends. Before class starts, students have studied the material to be discussed, at this stage students are expected to have the ability to remember and understand the material, so that when class starts students can apply and analyze the material through various interactive activities carried out in class, then proceed with evaluating and working on project-based tasks as an after-class activity (creating) [20].

This flipped classroom learning model applies technology as a medium in learning. The principle of using the media itself is effective and efficient, helping to shorten the delivery time of teaching materials, and can stimulate the imagination of teachers when getting factual information through the media [21]. This is by the characteristics of 21st-century learning where participants students and teachers must have the skills technology use. The ultimate goal of the learning model is to increase the character of the value of learning to love in students, directing significant changes in increasing the love of learning. Teachers must be creative and innovative in planting and building the character of students through one of the character educational models that will be integrated into the flipped classroom.

In their research suggest that the flipped classroom model is a strengthening of the character education of students, through the flipped classroom teachers are more creative and innovative in utilizing the model to build and strengthen the character of students. This model not only provides learning through video but also teaches how to use class time so that learning is of higher quality and can increase knowledge and critical thinking skills [22].

In their research suggest that the flipped classroom model can design a fun learning environment, regarding the learning environment for students in elementary schools, they should pay attention to meeting learning needs and pay attention to the relationship between the environment at school, at home, and the community as well as the learning environment [23]. Overall, the flipped classroom provides many opportunities for students to be able to engage in critical thinking independently to facilitate their learning which is more effective in learning and can interact with fellow students.

The constructivist view suggests that the learning environment is very supportive with the emergence of various views and interpretations of reality, knowledge construction, and other activities based on experience. This raises the idea of an attempt to evaluate constructivist learning. Lev Vygotsky is a figure of constructivist learning theory which emphasizes that humans actively construct knowledge and have mental functions and have social connections. The development of technology that is used to improve students' active role learning is that teachers need to develop a flipped classroom learning model that can increase students' active roles, one of which is by using constructivist theory-based learning.

It is no different from the humanistic theory which aims to humanize humans, meaning that a student can develop himself by knowing himself as a unique human being and assisting in realizing the potentials that exist within them. The idealized understanding of learning

makes humanistic theory able to take advantage of any learning theory as long as the goal is to humanize humans.

Humanistic learning theory with flipped classroom learning model helps students to develop themselves according to their potential. Students are the main actors in the learning process, providing unbridled guidance to students in their learning activities and facilitating the cultivation of values that will give them information about positive things. The flipped classroom learning model in humanistic theory will greatly assist students in understanding the direction of learning on a wider dimension, so that any learning effort and in any context will always be directed and carried out to achieve its goals. According to humanistic theory, teachers are expected not only to study how to teach well but an in-depth study is carried out to answer the question of how to make students learn well.

The problem-solving ability of students in the classroom using the flipped classroom model can improve their ability to apply concepts in developing knowledge, this model can provide a learning experience from abstract to concrete, able to stimulate and direct students to love learning so that students learning outcomes can be better. The occurrence of covid-19 requires students to undergo distance learning with independence that is not fully present in each student, the need to increase online learning satisfaction which will affect the motivation to love learning and learning outcomes are increasing and the flipped classroom model is appropriate to be applied to student distance learning as it is today.

The industrial revolution 4.0 is marked by the use of Information and Communication Technology (ICT) which has a huge impact on an educational program that is run. For now, the learning model must be innovative and digital-based so that students can build investigations into concepts and develop the ability to enjoy learning, manage time, and be able to express themselves verbally and in writing.

In their research suggest that the ability to understand math learning concepts that are difficult to learn students can apply the flipped classroom model using learning videos because use learning videos can provide better opportunities for students to learn anywhere and anytime, the advantages these learning videos can be repeated so students can understand the material presented [24].

#### 4. CONCLUSION

The conclusion based on the description in the results of the discussion is that the flipped classroom learning model can increase the value of the character who likes to learn. The flipped classroom model can be applied because it has very good criteria. This criterion

indicates the level of implementation of learning in the classroom. The introduction of this model can foster a student's love for learning characters has an impact on critical thinking skills, creativity, and 21st-century skills.

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