Flipped Classroom Strategy in Improving Achievement and Motivation of Madrasah Tsanawiyah Students

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ABSTRACT

Motivation to learn is very important for every student at school, especially at the Madrasah Tsanawiyah level. In addition, the support for a student at school is his achievement. This study aims to describe the flipped classroom strategy in Madrasah Tsanawiyah. In this study, researchers used quantitative methods using a survey model, conducted by online and in-depth interviews. The research subjects in this case are educators and students who are in school in Flipped classroom learning. The method that the researcher used to collect data was interview. This study found that the use of Flipped classroom can make learners more active and independent in understanding the learning material provided. This can be proven by the habit of students who are getting used to studying at home. This flipped classroom allows students to be more inclined to develop themselves to know this learning. The limitation of this study is that researchers have not developed a perfect flipped classroom to measure the level of teacher proficiency. Therefore, the next researcher can conduct research that aims to perfect flipped classroom learning.

Keywords: *Achievement, Flipped Classroom Strategy, Motivation*

INTRODUCTION

Entering the 21st century, teachers and students are required to have good teaching and learning skills, both soft skills and hard skills (Huang et al., 2020). Various challenges and opportunities also confront and cannot be separated from its existence (Stuart et al., 2019). 21st century education has several characteristics, namely encouraging students to improve their achievement and motivation in today's technological developments. Educators play an important role in the teaching and learning process, so they are leaders in education (Gee & Bauder, 2018). Teachers are obliged to provide the best service to all students who need education to improve achievement and motivation to become learners who have a lot of insight (Wang, Horby, et al., 2020). One of the tools that support student learning today is a cellphone or often a smartphone, one of which is an android-based cellphone.(Kermany et al., 2018). So far, many innovations have been made and developed (N. Chen et al., 2020), such as module development (Gu et al., 2019), models and learning environments and many more, but there are still many that are lacking. Therefore, it is deemed necessary to develop a new learning environment that can also be used as a learning resource, one of which is the flipped classroom strategy, the flipped classroom changes the teaching model that usually leads and direct explanation of teaching (Smith, 2018). The teacher for student learning whose instructions and explanations can be used by students both outside and inside the classroom.

Online learning media requires the support of sophisticated tools such as smartphones and computers (Hartmann et al., 2019). Optimization for smartphones is also necessary because students usually have smartphones and use them more often than computers More and more connections between humans and the Internet are developing (M. Tan et al., 2020), However, people's lives are still inseparable from technology and the internet, which will automatically change lifestyles, learning and working, and increase everyone's anxiety about high security threats. The position of technology is a very important position in the world of education, where the role of cooperation between teachers and students encourages the sharing of knowledge and accelerates the development of knowledge between students (Asmundson & Taylor, 2020) (Fischer et al., 2020) (Ding et al., 2020). Technology not only helps students learn independently without having to rely on materials provided by teachers, but they can gain broader knowledge by using technology well (Nalls et al., 2019). technology itself is also a means to process (Li et al., 2020), process and store data accurately and securely (J. Zhang et al., 2018) . Technology is a device consisting of software and hardware in its development.

The Flipped Classroom strategy model is one of the efforts to improve student achievement and motivation that can be applied to 21st century education (Wang, Pan, et al., 2020). Basically, the concept of the Flipped Classroom strategy is that students do at home what they do in class, learning by understanding the material provided by the teacher, in class students do what students usually do at home (C. Zhang et al., 2020), i.e. asking questions or solving problems (Q. Wu & Zhang, 2019) (C. Tan et al., 2018). Flipped Classroom is a way of learning that minimizes the capacity of learning activities

in the classroom by maximizing the interaction between teachers, students and their environment (Hoang et al., 2021) (Amoretti et al., 2018). The Flipped Classroom offers teachers the opportunity to better assist students, as well as differentiated learning for students with different needs and abilities. Educators today are very interested in innovative teaching methods that meet current needs (J. Chen & Ran, 2019) (Wulder et al., 2019) (Gill et al., 2019). One such approach is the flipped classroom model. Flipped Classroom is a relatively new learning strategy (Rodríguez-Quiel et al., 2022) (Hata & Tamoto, 2021). This strategy evolves along with technological developments such as internet access and other supporting software (Waterhouse et al., 2018) (Perez-Riverol et al., 2019) (Vosoughi et al., 2018). Teachers and students should be able to recognize what technology is because a lot of learning today requires technology.

Flipped Classroom is a blended learning strategy that changes the classroom structure and teaching methods (Cheng et al., 2020) (Klok et al., 2020) . Generally, materials are delivered within the school, and students can study the subject outside of school through assignments (Simonneau et al., 2019) (Yang et al., 2019), discussion, etc. This flipped classroom strategy uses learning materials that students can access online to support the learning materials that they can study in class or at home, instead of at home (Parong & Mayer, 2018) (Feng et al., 2019) (Apley & Zhu, 2020). Disengagement from lectures occurs outside of school and deepening of previously taught material or concepts is done at school through discussion, problem solving, critical thinking or otherwise (P.-C. Wu et al., 2018) (Demuyakor, 2020). *Flipped Classroom* offers students flexible access to a variety of subjects (Silverman, 2018). During face-to-face assignments, there will be discussion (material traditionally considered homework) or the teacher may ask the class to discuss questions related to the exam (Szklarczyk et al., 2019) . Some teachers also watch streaming instructional videos or participate in online discussions as a class activity under the supervision of a mentor.

There are two main steps in this strategy, namely homework: relevant reading materials related to the topic (online or paper) given to students as homework, the second option, students are asked to review further discussion in class, classroom exercises Reward Paying attention to the stages of learning in the classroom, then it is possible to overcome two major problems (Mücke et al., 2018) (Sallam et al., 2021). In the flipped classroom strategy, students have to study the material at home before learning it in class. 2 lesson hours can be maximized to solve various problems (Q. Wu & Zhang, 2019) (Ching et al., 2018). Therefore, the problem of limited time to deal with various matters can be overcome. Since this study uses learning videos, students can play the videos repeatedly at home. If they forget the material, they can replay the video tutorials.

One of the most important things in implementing a flipped classroom is the production of instructional videos for students to view outside of class (Snelson, 2018) (Cattaneo et al., 2019). This video is about vision, specifically motion pictures that require technology in the recording and transmission process (Blake & Hartge, 2018).

Learning is an effort to create learning conditions for students to interact with each other to gain knowledge and obtain learning objectives (Frenck et al., 2021) (Oktay et al., 2018). Word comprehension and learning-based learning videos are recordings of live images with the aim of conveying learning materials in such a way that students achieve learning objectives. Educational video is one of the learning tools that can activate the sensory functions of hearing and vision.

There are several previous studies that are relevant to the research conducted by the current researcher, including the flipped classroom strategy in improving the achievement and motivation of Madrasah Tsanawiyah students. The results found that the flipped classroom is useful for students and teachers in overcoming various problems and using learning videos, to be played back at home. Conducting research on how to utilize the flipped classroom strategy to improve student achievement and motivation in this day and age. The results obtained are the use of this flipped classroom is to make it easier for teachers and students to understand the learning that has been given to be better understood at home in order to achieve the learning objectives that have been studied by educators and students. In addition, there is also research on the effectiveness of the application of the flipped classroom learning model on improving students' critical thinking skills, the results of this study are, the average pretest scores of each of the test classes in series were obtained. Before treatment, a pretest was given using the Science Flipped Classroom learning model to measure students' initial critical thinking skills (Boluk et al., 2019). There is another study, namely the Implementation of the Flipped Classroom Learning Model in Distance Learning to Increase Science Learning Participation, the results found are that during the Covid-19 pandemic, distance learning conducted with the Flipped Classroom learning model in class IX.2 SMPN 1 Gangga in the 2020/2021 school year can run well, can increase student participation in online distance learning, More and more students are satisfied with PJJ and can learn science online (Estriegana et al., 2019). The other research is the role of the flipped classroom learning strategy on the motivation and learning outcomes of mathematics students at Sma Negeri 15 pekanbaru (Singh et al., 2019), The results found are the results of the discussion that has been revealed in the previous chapter can be concluded that there is in Dian Lestari et al an increase in motivation and learning outcomes in mathematics through the application of flipped classroom learning strategies.

The purpose of this study was to determine the extent and how to improve the flipped classroom learning strategy for all students in Madrasah Tsanawiyah. And whether it can make good use of it to improve the achievement and motivation of madrasah tsanawiyah students, what are the advantages and disadvantages of using the flipped classroom strategy for teachers and students. The problem caused by the flipped classroom strategy of Madrasah Tsanawiyah is for teachers who do not have perfect technology, maybe because of the age factor. But sometimes teachers create other obstacles that only rely on technology, especially the flipped classroom, so that students are less in reading books, and finally also rely on technology to learn.

RESEARCH METHODOLOGY

This research was conducted using a quantitative method with a survey model and in-depth interviews with teachers and students who used the flipped classroom learning model (Marugán et al., 2018; Yu et al., 2020; Zwanenburg et al., 2020) . The survey model is used because it is in line with the research objectives, namely to obtain and analyze the opinions of the teachers regarding the utilization of the flipped classroom strategy in improving the achievement and motivation of Madrasah Tsanawiyah students. While the in-depth interview process is useful to get a more complete explanation of the extent of the flipped classroom strategy in the learning model used in the school. The place where this research was conducted was at Madrasah Tsanawiyah Batusangkar and Madrasah Tsanawiyah Rambatan in the odd semester of 2022. The reason for choosing this time is because the learning process of the flipped classroom strategy model is generally still implemented in this school and teachers can conclude how the utilization of the flipped classroom strategy.

The results obtained in this study were obtained from teachers and students of Madrasah Tsanawiyah who filled in the google form. This technique was chosen to facilitate teachers and students in answering the questions asked by the researcher. Judging from the google form, teachers and students answered all questions and obtained acceptable results for this study. This google form becomes a guideline for researchers to decide that the flipped classroom strategy is effective in learning. Looking at the results of google forms that have been filled in by some teachers and students who are in schools or madrasah tsanawiyah, in-depth interviews were conducted on some students and teachers to get stronger data and researchers are interested in researching the flipped classroom strategy in Madrasah Tsanawiyah.

One of the media models that support learning especially when using internet media is the flipped classroom, where this flipped classroom can facilitate teachers in teaching students through learning videos that are taught at school and can be replicated at home, the teaching solution that is expected to improve student learning outcomes is the application of the flipped classroom strategy. When learning with the flipped classroom strategy, the learning is reversed, the teacher does not deliver learning materials and concepts in the classroom, but the teacher prepares them and then shares them with students. The learning materials are then studied at home or outside of class. Students also take an organizational test of the material at home. Students' activities in class are mainly discussion of analysis results with learned concepts and practical learning. Learning activities focus on each student completing tasks or exercises. In this study, educational materials use the help of multimedia devices and technology, namely... Learning through the blended-flipped classroom model is more conducive to the learning atmosphere in the classroom, there is no pressure, because all students have the right to express opinions, tolerate mistakes during learning.

Data collection for this study was carried out using survey techniques, i.e. by

preparing a questionnaire and adding several questions related to the flipped classroom strategy in improving the achievement and motivation of Madrasah Tsanawiyah students (Garcia-Garcia et al., 2018; C. Tan et al., 2018). After the survey, the researcher conducted an in-depth interview with one of the teachers of the Batusangkar Tsanawiyah madrasah about the flipped classroom strategy in improving student achievement and motivation at school. The data collected was then presented using quantitative methods, i.e. by calculating the percentage obtained from all questions asked by the researcher to teachers and students. The resulting percentage is then presented in a table. In the discussion section, or research results, researchers describe the research conclusions obtained in percentages.

RESULT AND DISCUSSION

The survey conducted by Google Forms researchers previously gave satisfactory results about the flipped classroom strategy of teachers and students to improve the achievement and motivation of Madrasah Tsanawiyah students, teachers and students know what the flipped classroom is. learning model used for learning. This learning is very useful in all subjects, teachers and students agree with this flipped classroom strategy to increase the enthusiasm of students who are more active and creative in learning and facilitate understanding of the material, because with this flipped classroom strategy teachers and students can repeat what has been learned at home by repeating the learning video. this strategy is very suitable for learning and can have a positive effect on students, initially lazy students are more diligent and motivated to improve learning success and motivation. It turns out that the teacher successfully applied this method so that students could think critically during the task.

Teachers and students say that there are disadvantages to this strategy, but there are actually more advantages to using this strategy. The flipped classroom strategy has many benefits for teachers and students of madrasah tsanawiyah, students become more active and creative in learning and enthusiastic in doing the tasks given by the teacher, the teacher will save more energy in delivering the material because the teacher does not only teach one class. As for the shortcomings of this strategy and the impact that will occur on students, namely students will be more inclined to use technology alone, so that they are less in understanding books by reading or lack of reading.

Table 1 Research Results of the Flipped Classroom Strategy in Improving Student Achievement and Motivation at Madrasah Tsanawiyah

No.	Questions asked	Answers obtained	Description
1.	Do you think the flipped classroom strategy is useful for learning methods?	75%	Teachers in madrasah tsanawiyah agree that the flipped classroom strategy is useful for learning methods.
2.	Do you agree that the flipped	agree	This strategy can be

	classroom strategy is developed in all schools?		developed in all schools
3.	Do you agree that learning nowadays really needs technology, especially (flipped classroom)?	87,5%	Nowadays, learning requires technology
4.	Do you agree that the flipped classroom strategy can improve student achievement and motivation in schools?	agree	Flipped classroom strategy can improve students' achievement and motivation.
5.	Does the flipped classroom strategy have any disadvantages?	75%	Some teachers and students said there are drawbacks to this flipped classroom strategy
6.	Do you agree that with this flipped classroom strategy, it will add to the students' creativity in learning?	agree	
7.	Do you agree with flipped classroom learning at home doing what is done in class, namely learning by understanding the material that has been given by the teacher?	87,5%	
8.	Do you agree with flipped classroom learning at home doing what is done in class, namely learning by understanding the material that has been given by the teacher?	agree	This strategy can increase students' activeness and creativity in learning
9.	This flipped classroom strategy utilizes learning media that students can access online, for learning that will be learned later.	68,8%	
10.	Do you agree, because there is this flipped classroom learning, it increases the enthusiasm of students to be more active and creative in learning?	agree	This strategy can help students in repeating their learning at home by repeating videos

Madrasah Tsanawiyah that applies the flipped classroom strategy, several teachers and students said that this strategy is very useful in the learning model because it facilitates learning and teaching for students and teachers, teachers do not bother

explaining the material in front of the class and students more easily access learning materials online and assignments given by the teacher, students will be more active in doing assignments because all the material studied is available on the internet, This strategy has positive and negative effects, positive effects, students want to further improve their learning outcomes and achievements, the negative effect is that students tend to play more with their smartphones, for example playing games, Tiktok, Instagram and other applications that are not related to learning, and lack of understanding of lessons by not reading books, so teachers must pay more attention to all students in using technology for things that are useful in learning.

Flipped classroom strategy is one of the technologies that is rarely known in the world of education or in other educational institutions, here educators and students must know more or less about learning media such as, flipped classroom where the flipped classroom strategy is very much needed for the learning process, especially at this time, and the future, where the benefits of the learning model are very good for educators and students, researchers expect educators to know more about what the flipped classroom strategy is for learning, especially in Madrasah Tsanawiyah and researchers hope that this learning will become a learning model with many positive impacts, although there are negatives, hopefully it can cover with many positive impacts.

Researchers have spread questionnaires to teachers and students of madrasah tsanawiyah, to make it easier for researchers to find out how much teachers and students of madrasah tsanawiyah know about this flipped classroom learning model, and how many benefits this learning model has in the world of education. The benefits of the flipped classroom are that it allows students to access various subject matter more flexibly. This strategy can also increase students' involvement in learning so that they become more active and can increase achievement and motivation in technology-based learning. Researchers really hope that this research will be useful for further researchers and can improve the learning model that must be improved.

Technological advances make it easier for teachers and students to apply the flipped classroom strategy. The flipped classroom strategy has many benefits as a learning media applied by teachers, the application of flipped classroom media makes this technology better known by Madrasah Tsanawiyah teachers and students. Tucker argues that teachers do not need to prepare self-made learning videos, but teachers easily download them from the Internet. Teachers should structure and help students achieve learning objectives, encourage students to prepare lessons using short videos, ask questions and organize discussions that allow students to receive feedback on their achievements. The aim is to encourage deep learning and change learning strategies through classroom activities such as discussions. Flipped Classroom is where classroom learning becomes home learning with homework or class assignments.

Flipped Classroom is an active learning where a student-centered approach can improve the quality of learning during class. This Flipped Classroom approach is a pedagogical support technology that has two components: 1) using computers as live

learning outside the classroom through learning videos, and 2) interactive learning activities inside the classroom.

Flipped Classroom is an internet-based learning model that can be applied by teachers and students in the learning process, making it easier for students to understand the material and their enthusiasm in making assignments given by the teacher by accessing learning videos on the internet. This strategy is very useful for madrasah tsanawiyah teachers and other educational institutions, because with this learning model the teacher no longer struggles to explain the lesson from beginning to end, only monitoring his students in learning lessons from their respective smartphones, this kind of learning model involves teachers and students playing an active role in the use of technology, especially the flipped classroom strategy media, which will be used at this time and in the future.

The Flipped Classroom strategy is a type of learning model where teachers provide several steps to their students, namely. first the teacher provides topics and assignments, teachers can use the material to share topics and assignments through sevima delink. and assignment functions for students to study at home. the material can be in the form of videos or e-books. Second, the teacher can chat with the students, the teacher can conduct a guided conversation in the form of mentoring using the EdLink class chat function, the teacher can initiate the question and answer function so that the students understand what they should do to complete the assigned tasks Third, the teacher conducts a test to determine the level of understanding of the students, the teacher can measure the understanding through the quiz function, and the students can upload their learning results to the assignment function, and the teacher improves the results of self-study. made by the students from home. Fourth, the teacher reinforces the shared material face-to-face during the students' turn to study face-to-face at school, with a capacity of half the number of students in the class.

The learning strategy as above is what makes Madrasah Tsanawiyah students become more improve achievement and motivation in learning the flipped classroom model, educators and students play an important role in carrying out this strategy, in order to create conducive learning, contribute and always support the next learning strategy process. Here we can see the ways and strategies of teachers in using this learning model, so that teachers and students understand more about the learning material being studied, this strategy has many benefits that will always be developed by teachers and students who use it, as for the shortcomings of this strategy, with this we can cover the shortcomings that exist in this strategy.

Based on research conducted by researchers at Madrasah Tsanawiyah Batusangkar and Madrasah Tsanawiyah Rambatan who have practiced the flipped classroom strategy, the results are very encouraging and of better quality, students who practice this method are very motivated to learn, their creativity is greatly increased, responsibility is increased, students are more active in class lessons, and their academic grades are better when compared to traditional learning methods. Likewise, teachers also feel that they have more time to discuss with students. With the flipped classroom

model, we aim to equip students with critical thinking, collaboration, communication skills, and creative/innovative thinking. Teachers don't control class time. The interaction between teachers and students is more fun.

Learning is basically not for students, everyone should be thirsty for knowledge. It is the same with learning to understand technology and online learning media. Teachers must be ready to make major breakthroughs in education. The training that teachers take to understand the flipped classroom strategy should be taught by people who are truly experts in their field. Teachers need to identify the flipped classroom strategy more actively than students because teachers are the first to explain to students what the flipped classroom strategy is. In this way, teachers' skills in teaching through online learning environments, such as flipped classroom, grow and develop. Achieving effective, conducive and active goals in every subject that students learn.

Not only teachers or educators who only need to understand the flipped classroom strategy in this learning media, but students who are the target of education need to understand the learning media they use in their teaching and learning activities. Many students claim not to understand this learning model. One of the factors that students do not know about this learning model is because this learning model lacks parental support and assistance for students, and student guardians must also know technology and know how to use technology so that students are also enthusiastic in knowing this flipped classroom learning model. Often, motivation and willingness to work for the differences are the factors that cause students to accept this flipped classroom strategy learning model. Student understanding is needed to master the material shared by the teacher through educational videos. If students do not understand this strategy, the learning process using the flipped classroom strategy will be difficult and limited, so parents need to encourage their children to be more enthusiastic about developing this flipped classroom strategy in learning.

Using the flipped classroom strategy as a means of online learning is certainly very useful and important in the world of education, including in junior high schools, especially in Madrasah Tsanawiyah. Flipped Classroom has several advantages, namely teachers are satisfied and prefer to use this flipped classroom strategy compared to other learning models, because the flipped classroom strategy is very easy to use for learning, so teachers and students are happy to apply this flipped classroom strategy in Madrasah Tsanawiyah that has been studied by researchers. According to the teachers who have been interviewed by the researchers, the flipped classroom is very easy to implement by teachers and students, because it makes it easier for teachers to provide subject matter as well as students who only learn through learning videos that have been accessed on the internet.

The flipped classroom strategy is a technology-based learning model steps that are organized by the teacher into a good learning process. Flipped classroom as a source and way of learning information and communication technology. This online learning environment can provide convenience for teachers and students to watch the learning videos they want. If the use of this strategy in learning is improved, it will affect the

development of information and communication technology. Therefore, all schools will use this strategy because they think it is good to be developed and improved as a new learning model and will continue in the future.

The advantages of the flipped classroom strategy as online learning are many, one of which is that the flipped classroom strategy can provide convenience in online learning, because in this strategy teachers and students only need to watch videos and others, the flipped classroom strategy also has a strong influence on student motivation and encouragement during teaching and learning activities and can also improve achievements that may have been buried because they are bored with learning like that. With this learning model, a learning atmosphere that saves time and energy is created, the enthusiasm for learning of students who previously did not exist in this type of learning system increases when using this flipped classroom strategy learning system, because students are always interested in new things, especially Madrasah Tsanawiyah students.

Of course, behind the many advantages of the flipped classroom strategy, there are also disadvantages or weaknesses, network or signal limitations are the first obstacle in online learning, and it is also difficult to get quota, because not all parents can continuously buy quota, so that their children can learn, they can be good parents. Because students and teachers use less and less strategies in their communication, and this makes students lazy to express opinions and read books, students are more likely to use smartphones to play games, watch trash, etc. the difference in the level of intelligence or intelligence of each student is also an obstacle in the implementation of this learning model activity, successfully achieving the vision and goals of education. Various cultural factors also hinder the success of online learning.

The many advantages and disadvantages of this flipped classroom strategy, can be concluded from the researcher and the limitations contained in the results of the study itself, which was conducted by distributing questionnaires to teachers and students of Madrasah Tsanawiyah. One of the benefits of the flipped classroom strategy is to give students more responsibility for their own learning. Outside the classroom students can learn independently according to their ability to absorb information, the teacher no longer needs to elaborate on the lesson or explain because the disadvantage of this flipped classroom strategy is that students do not know the entire learning method. the method must be adjusted, because students study alone at home, so students are not ready to actively learn in class, and so is the use of smartphones that may not be controlled by students.

Despite the many advantages and disadvantages of the flipped classroom learning strategy in improving the achievement and motivation of Madrasah Tsanawiyah students, the researcher hopes that the use of this flipped classroom strategy will be a good motivation for teachers and students to create fun learning that always improves students' achievement and motivation. Especially in Madrasah Tsanawiyah, where the researcher conducted the study, the development of this strategy is needed to further increase the benefits of its use, and can cover and reduce some of the weaknesses

inherent in this flipped classroom strategy. This strategy is a strategy that is always used.

CONCLUSION

Flipped Classroom strategy in improving the achievement and motivation of Madrasah Tsanawiyah students in accordance with the expectations and requirements that must be met. In general, the flipped classroom is still unknown by all teachers and students, although many do not know about it, the use of this strategy is very suitable for learning, many advantages for learning. participants' responsibility about themselves. learning itself. Similarly, out-of-school students can learn independently according to their ability to assimilate the knowledge acquired. With this learning strategy, students can be encouraged to be more active, achieve and be motivated to improve their learning. Advantages, the strategy also has disadvantages, one of the disadvantages of the strategy is that students who are new to the method must adapt because they study alone at home, so they are not ready to actively learn in class. This strategy can also improve the ability of teachers and students to use technology in the midst of the demands of the 21st century.

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