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## Video Utilization in Improving Student Achievement in Early Childhood Education

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### ABSTRACT

**Background.** Video media in learning can have an impact in the field of education, especially in early childhood to help children's growth and development, video as a three-dimensional system that has an important role.

**Purpose.** The study aims to determine the utilization of video in improving early childhood achievement.

**Method.** The method used is quantitative method, the research format is Survey Study. The data collection technique used is communication technique. Data tools are collected in the form of questionnaires and documents. In-depth data analysis This research uses percentage analysis. The sample in this study was 50 people.

**Results.** The results of this study indicate that learning videos can improve student achievement in learning in early childhood education.

**Conclusion.** The conclusion of this study is that with learning video media, children become more confident and make it easier for early childhood to absorb material delivered by educators, and can assess children's activeness directly.

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### KEYWORDS

Achievement, Early Childhood, Video Media

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### INTRODUCTION

Achievement is the result of a process of implementation, creation, enjoyment and realization through hard work of individuals and teams in a particular field of activity (Diamond & Lee, 2011; Duckworth & Seligman, 2005). A person's academic achievement can be influenced by the role of parents in educating their children (Ghanizadeh, 2007; Kelly dkk., 2012; Morawska dkk., 2015). Emphasizes that learning outcomes can be obtained through learning activities that take place in student and teacher activities, students and parents at home and social activities around them with learning resources (Artino dkk., 2010; Harrison, 2001). Explaining that there are two factors that affect student learning outcomes, namely internal factors and external factors. Learning outcomes are the results of learning activities that are real skills that can be measured directly using learning outcomes tests



(Domínguez dkk., 2013; Liem dkk., 2008; Lizzio dkk., 2002). After a person undergoes a learning process, the learning results are reciprocal to studying hard by studying well.

According to (Yee dkk., 2017) Education is very important for human life both in the family and society. Early childhood education is a form of education that supports physical and spiritual development so that children are prepared for further education (Baughcum dkk., 2000; Raine dkk., 2003). In early childhood education, teachers are functionally seen by students as educators, namely someone who can explain everything, not only teaching in essence, but also a guide in shaping the personality of students (Figueredo dkk., 2022; Ford dkk., 2016). For this reason, educators must fulfill special teaching requirements, namely based on various educational and teacher sciences, a set of exercises that require teacher skills (teaching practice) and diverse educational attitudes (Baldwin dkk., 2014; Rosyidi & Kohar, 2018). Education should be able to develop people's creative thinking according to their world, and the learning process should be fun, adopt different learning methods, and introduce learning situations to children.

Technology is a system created by humans to improve capabilities, assist activities, and provide all kinds of convenience (Baby & Kannammal, 2020; Badano dkk., 2018). Nowadays, technology has become an integral part of our daily lives, especially the lives of young Indonesians. All fields including education are affected by technological developments, so learning activities must be able to answer the challenges of the industrial revolution era (Sozinova dkk., 2022; Yang dkk., 2022). The presence of technology is currently considered very important in human life, as a support for carrying out various activities in terms of work and education, technology is strongly supported by the availability of internet networks that can affect other developments. This is especially true in the field of education. In the world of education, the internet is used as a support for learning media. The utilization of technology in learning can provide stimulation and generate enthusiasm (Alsoufi dkk., 2020; Galang dkk., 2022) pada siswa (Hardiyana, 2016).

In education, technology has an important impact on science, students learn natural facts and technology, and humans utilize technology to increase knowledge (Avidan dkk., 2021). It is expected that schools do not forget the news about technological sophistication in providing electronic devices that support the learning process. Quality and adequate facilities and equipment will make educational activities successful and efficient. Students can use good technology in education to improve their knowledge (Arghittu dkk., 2021; Horgan dkk., 2020). Educational technology can be explained as learning or practice for students who help in the teaching and learning process in schools can be in the form of teaching that requires a process using technology (El Bilali & Taleb, 2020; Yang dkk., 2022). The important role of educational technology today is very beneficial for learning from low level to high level such as media. The main principle is that education and technology have a very narrow relationship or relationship because technology is part of the management of the education system.

Video media is one of the media that can describe an object together with the appropriate sound (Aparecida Sarzi Ribeiro, 2021). Video media is able to broadcast message elements clearly with simultaneous sound and display objects, places, and incidents in moving image format attractively. In addition to the advantages, video media has the disadvantage that the media emphasizes the importance of the material and pays less attention to the process of developing the material itself. learning videos can assist teachers in providing learning materials using technology, this also includes a form of professional development of teachers in exploring the use of videos in learning (Taji dkk., 2022). This video learning media is effective and efficient for teachers, teachers from all directions can use video media. There is even specific guidance for teachers on the operation of this media, similar to training in teachers (Barokhah dkk., 2022; Kaley dkk., 2019).

Learning media in the form of videos means that one of the innovative audio-visual media that can support more interesting learning. The advantages of video media mean that it can present issues, mention concepts using pictures, teach skills, shorten or extend learning time.

Relevant research that is reviewed in accordance with the problems in this study is research from “Utilization of Video Media in Early Childhood Learning during the Covid-19 Pandemic” with relevant results the utilization of learning videos can be applied during a pandemic and can be used by children to receive the learning provided such as assignments with learning materials that are habituation or fun activities that can be done at home, the second research (Abdar dkk., 2021; Astolfi dkk., 2019). “The application of video as a learning media “with relevant results video media is the most appropriate and accurate learning media in conveying messages and will greatly help the understanding of the third research learner” (Lawson & Mayer, 2022). Utilization of learning videos in integrated thematic subjects in elementary schools during the COVID-19 pandemic” with relevant results Learning video media is effectively implemented during the Covid-19 pandemic, because it makes it easier for educators to teach material and makes it easier for students to understand learning material.

Teachers tend to provide very boring learning or are more inclined to the lecture method and do not use technology as one of the learning vehicles, saying the poor quality of learning in early childhood. The novelty of this research is the concrete efforts and deepening of video media in early childhood achievement. In addition, digital media has many benefits for teachers and students to be a vehicle for learning for daily life, video recording, games, making anecdotes and finding the latest learning methods and techniques to add variety to the classroom atmosphere. in this study using simple video media to make learning more interesting so that early childhood understands and simply remembers what is conveyed.

Video media is highly desirable in the learning process because media plays an important role in encouraging the learning achievement of students, especially in early childhood, because early childhood has not yet had the ability to think conceptually higher and must be visualized more realistically and real. So it is important to conduct research on the Utilization of Video in Raising the Achievement of Early Childhood Education Learners. Although there is poly research on this topic, this research has not specifically discussed it. In addition, teachers or teachers will be more practical in providing material through video media. Of course, this must be supported by the knowledge and technology of the material being taught.

according to the initial study of video utilization that has been explained, the relationship between the researcher determining this title is to determine the effect of video utilization on early childhood achievement and video media can shape learning to be more varied as a result of more interesting learning in order to convey learning experiences for children into learning media. This research contributes to convey knowledge about other ways of using learning media to find out the social aspects of early childhood, the existence of learning videos that are able to increase students' achievements and abilities in the learning process, the methods used by video media will be even better and make it easier for students and teachers, children can learn using enthusiasm, and learning outcomes can be achieved maximally.

## RESEARCH METHODOLOGY

Qualitative narrative research is defined as research that investigates natural social action events emphasizing how people interpret, and understand their experiences to know social empirics so that individuals can solve their own problems (Buja dkk., 2020; Radmann & Karlén, 2022). Quantitative research as a research approach used using questionnaire specifications as a method.

This method aims to describe the similarity of the actions of the population using how to examine the entire population sample (Kirtane dkk., 2019). Survey is a method of collecting data by using instruments to solicit responses from respondents about the sample (Aryan dkk., 2021; Giustina dkk., 2019). Interview is a method of collecting data by asking questions to respondents where the researcher does not use an interview guide that has been arranged to obtain the data. Field information is used to collect gossip or data or opinions from a large number of people on exclusive topics or news - issues.

Based on the above views, in the study the authors took early childhood aged 5 - 6 years as a sample using certain considerations that early childhood is the main sample in the study. in this study there are two variables that are used as a reference for observation, in order to obtain data and conclusions about the reality of video utilization in improving the achievement of Early Childhood Education students. data collection here is the most strategic step in research, because the primary purpose of research is to get data. Data collection is carried out using 2 techniques, namely interviews, questionnaires and documentation. for data collection through software using Google Form and will be distributed to respondents through social media when collecting data. quantitative research methods can be interpreted as research based on the philosophy of positivism, used to research on exclusive populations or samples, sampling techniques are generally carried out randomly, data collection uses research instruments.

## RESULT AND DISCUSSION

### Result

Video-based learning media has shared a positive response said the teacher by using video-based learning media can increase focus in students, motivate students, increase learning efficiency, and achieve learning targets this finding was previously Sari and Suryana. Video media can raise morale, so the findings of the study on the learning process, realize efficient and effective learning stimulates the enthusiasm of students to learn. and in order to carry out new learning efficiently and effectively, as a result students have Interest in learning and promoting understanding of material content to achieve learning goals. The achievement of children is a final evaluation derived from the process and recognition that has been done repeatedly and forms directly individuals who always want to achieve that will happen even better as a result will change the way students think and make good behavior needed by parents in children at school.

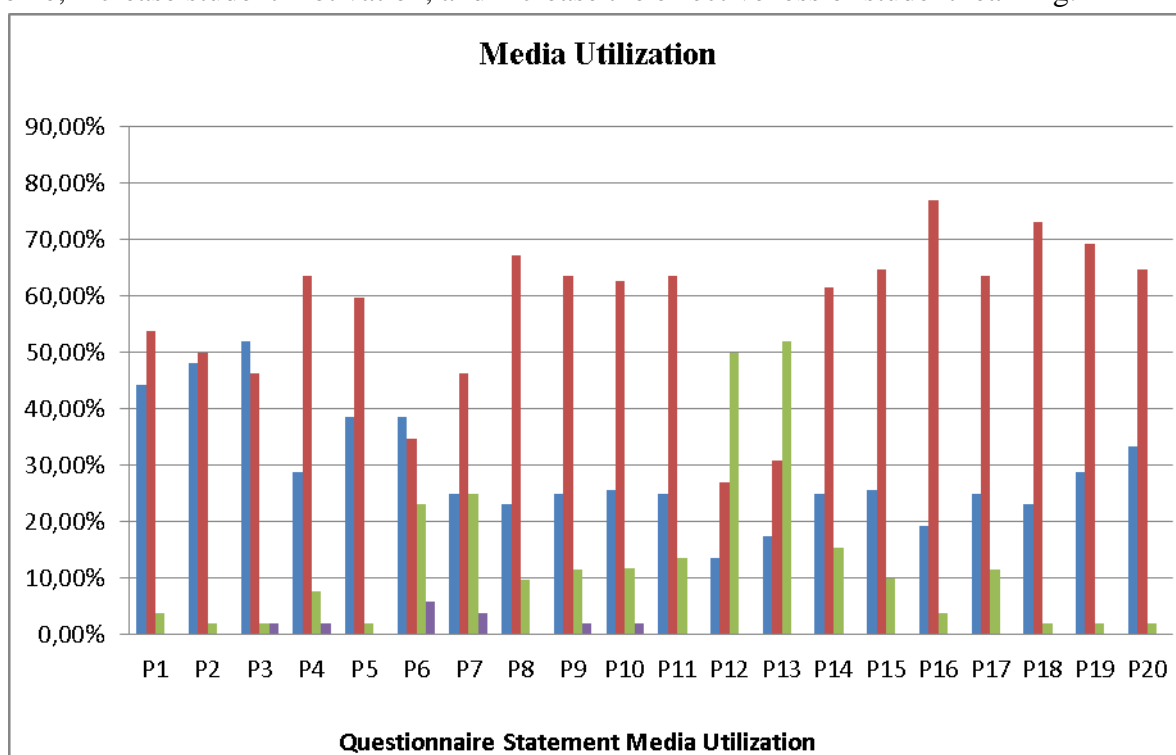
The delivery of material through learning video media not only provides according to the material to be taught but there are other warnings that hypnotize the interest of participants to educate while learning it in the form of experience or environmental situations more or less and then bring in subject matter through video also in the practical class will be more practically carried out by students what he sees on video shows not material presented through books or pictures. this activity will facilitate students and teachers during the learning process. As a result of video media, learning will arrive faster to children using media that is displayed is the focus of light so that it can hypnotize the minds and emotions of children in teaching activities, focus on the psychology of students needed because with this children will more easily understand the text in the use of media in the orientation stage of teaching greatly helps the effectiveness of the learning process and the delivery of messages, and content at that time. getting learning by doing or experiencing has learned in the process of seeing and listening.

| No | Question   | Strongly Agree | Agree  | Disagree | Strongly Disagree |
|----|--|----------------|--------|----------|-------------------|
| 1  | The use of learning video media makes me more motivated in learning  | 44,2 %         | 53,8 % | 3,8 %    | 0%                |
| 2  | Learning using videos is very interesting and fun  | 48,1 %         | 50 %   | 1,9 %    | 0%                |
| 3  | With the use of video, it can help students understand the material so they don't get bored quickly.           | 51,9 %         | 46,2 % | 1,9 %    | 1,9 %             |
| 4  | With the use of video can achieve accurate and effective learning  | 28,8 %         | 63,5 % | 7,7 %    | 1,9 %             |
| 5  | By showing videos in learning, I understand the material better.   | 38,5 %         | 59,6 % | 1,9 %    | 0%                |
| 6  | I feel bored when following learning with the lecture method   | 38,5 %         | 34,6 % | 23,1 %   | 5,8 %             |
| 7  | I am less able to clearly capture the material conveyed by the teacher only through lectures than video media. | 25 %           | 46,2 % | 25 %     | 3,8 %             |
| 8  | this video media can help me learn independently at home   | 23,1 %         | 67,3 % | 9,6 %    | 0%                |
| 9  | It is easier for me to remember the material conveyed by the teacher using video.                              | 25 %           | 63,5 % | 11,5 %   | 1,9 %             |
| 10 | I enjoy learning in class because the teacher uses video media   | 25,5 %         | 62,7 % | 11,8 %   | 2 %               |
| 11 | I can focus on learning by using video media in class or outside.  | 25 %           | 63,5 % | 13,5 %   | 0%                |
| 12 | I don't like the music in the video because it can interfere with concentration.                               | 13,5 %         | 26,9 % | 50 %     | 0%                |
| 13 | With the application of video utilization can replace the role of the teacher as an educator                   | 17,3 %         | 30,8 % | 51,9 %   | 0%                |
| 14 | With the use of video in learning can improve student achievement  | 25 %           | 61,5 % | 15,4 %   | 0%                |
| 15 | with the utilization of videos in class I am more imaginative with the learning.                               | 25,5 %         | 64,7 % | 9,8 %    | 0%                |
| 16 | With the vedio shown, I find it easier to do the exercises given by the teacher.                               | 19,2 %         | 76,9 % | 3,8 %    | 0%                |
| 17 | Video media is very influential in the learning process in the classroom                                       | 25 %           | 63,5 % | 11,5 %   | 0%                |
| 18 | with video media method learning makes me more involved imagination  | 23,1 %         | 73,1 % | 1,9 %    | 0%                |
| 19 | With the video media in learning, it gives me new experiences in learning.                                     | 28,8 %         | 69,2 % | 1,9 %    | 0%                |
| 20 | video media has a practical and flexible method for early childhood  | 33,3 %         | 64,7 % | 2 %      | 0%                |

**Table 1.1** Results of Questionnaire Distribution

In the table above, several indicators or statements related to video utilization in improving student achievement in early childhood education have been described by students. Indicators from several explanations can be seen that video utilization in improving student achievement by applying video media to learning makes students more motivated, more eager to take part in learning and is very helpful in arousing student curiosity so as to achieve learning objectives. The questions tested in this questionnaire totaled 20 items using google from technical which can help students in the teaching and learning process so that they can achieve learning objectives. The statement with the use of video can help students understand the material so that they don't get bored quickly with the highest score of 51.9% with a strongly agreed answer. Statement The use of learning video media becomes more motivated in learning with answers strongly agreeing 44.2%. The indicator statement I feel bored when following learning with the lecture method with a value of 38.5% answers strongly agree and the statement I am less able to clearly capture the material conveyed by the teacher only through lectures than video media is 38.5%. With the answer strongly agreed and it can be concluded that the use of video is very necessary in learning for early childhood.

Statements with agreed answers are also of high value, in the statement With the video shown, it is easier for me to do the exercises given by the teacher with 76.9% of respondents' answers. The statement with the video media method of learning makes me involve my imagination more with a high answer of 73.1% with respondents agreeing, the statement about the presence of videos in learning gives me new experiences in learning with a percentage of 69.2% for the answer agree. In the video media statement can help students learn independently at home with a percentage of 67.3%. The video media statement has a practical and flexible method for early childhood, many respondents gave answers agreeing with a percentage of 64.7%. Thus it is concluded that the use of video-based learning aids can increase student attention, make students able to study independently at home, increase student motivation, and increase the effectiveness of student learning.





The statement of video utilization in improving the achievement of early childhood education students from the results of the questionnaire the researcher distributed there were several statements that were agreed by the respondents, the statement With the video shown I find it easier to do the exercises given by the teacher, the respondents' answers were 76.9%. The statement with the video media method learning makes me involve my imagination more 73.10%, the statement with the video media in learning gives me a new experience in learning 69.20%, it can be drawn that some students by utilizing a media students are more creative, independent and improve their performance can be more concentrated in learning or more focused students in this category have visual intelligence. In education, children's intelligence is divided into 9 human intelligences (1) linguistic intelligence, (2) kinesthetic intelligence, (3) musical intelligence, (4) spatial intelligence, (5) interpersonal intelligence (6) intrapersonal intelligence, (7) naturalistic intelligence, (8) logical intelligence and (9) extentional intelligence.

The final results of observations of video utilization in improving student achievement in early childhood education show a positive response in terms of early childhood behavior development after using media during learning. This is evidenced by the behavior that occurs in children, where with the use of video-based learning aids student attention increases, student motivation increases and also the effectiveness of student learning increases. . The detailed explanation can be seen in the table that video media is needed and approved by students to improve achievement.

## DISCUSSION

The use of video media in early childhood education is one of the educational methods that can be applied when teaching. In fact, education is carried out not only by prioritizing the development of academic abilities, but also improving all aspects of child development since childhood and maintaining children's independence. These areas should be developed as much as possible so that the child can progress to the next stage of development without any deficiencies. Remember that each child's grip strength is different, and parents should adjust the amount of stimulation they give their child. This is in accordance with Suryani and Seto's (2020) research that the presence of educational media can be an effective vehicle to improve several aspects of child development. The impact of video advertising reaches audiences faster than other media. Because nature is in the form of focused light, it is able to influence human thoughts and feelings. It is very important to pay attention to students' emotions while learning.

This makes students understand the material better. In fact, the video content used for students must be relevant to the learning objectives (Yudianto, 2017). Making videos as one of the learning methods has various benefits for children, although in the form of videos it is easier for children to understand learning materials as if the teacher is present, sharing, and children are interested in the teacher. Educational videos must be clear and concise so that children or parents can understand what the teacher is explaining. According to the information above using video learning materials shows a positive response. Teachers said that using video teaching materials increased students' attention, motivated them, improved learning efficiency and achieved learning objectives. The previous findings of Sari and Suryana (2019) support these findings. The results revealed that video media can increase enthusiasm in the learning process, make learning more efficient and effective and generate interest in student learning.

Therefore, new learning is carried out in an effective and efficient way so that students are interested in learning and support understanding of subject content to achieve learning objectives. By increasing students' attention, it is said that the use of educational videos can help students understand the material better. This educational video also motivates students to participate in the

learning process that educational media can do more than what can be applied, such as stimulating students' interest or interest in learning. Video media applied to can stimulate curiosity to acquire new knowledge. Only then will students be interested in learning. Educational videos can also prevent boredom in the learning process (Sofiah, 2020). The delivery is organized, the language is easy to understand and the selection of animations and images and educational videos has a positive effect on student learning motivation.

Students' interest in learning can be influenced by its content, namely interest in participating while learning and listening while learning. This finding is supported by previous studies which show that the use of video media makes the learning process more fun and interesting. Sometimes, things conveyed through the teaching process are not well understood by students, and sometimes the teacher is unable to explain something, therefore the media serves as a tool to promote these things during the learning process. To increase student motivation, it is said that using video props can increase student motivation during the learning process. Educational videos are a learning tool that helps in increasing students' motivation, understanding and interest when evaluating learning materials provided by teachers during the learning process.

With inspiring images or videos, children will immediately focus on the tireless knowledge of the teacher in the lessons given. Especially young people should learn while playing. revealed that teachers in the classroom can use video as a learning method to make learning more interesting. Learning through the use of video media is a teacher who makes learning communicate in a way that is easy to understand, easy to understand and fun, so that students are happy to learn in a fun way so that they remain motivated during the learning process. This finding was previously confirmed by that using video media encourages students to be more motivated, enthusiastic to take part in learning and stimulates student interest, to achieve learning objectives. To enhance the learning effect says that the use of educational video aids enhances the learning effect and learning process.

Education is very important to support the learning process. Because learning materials are tools that facilitate the learning process and facilitate the achievement of learning objectives because participants are more motivated to engage in learning. Improving learning effects. Other studies conducted by about video learning materials are visual and audio materials that contain good educational information including principles, concepts, ideas and methods of applying knowledge to help understand learning materials. Videos can make the learning process more enjoyable and motivate children to learn. This is consistent with the conclusion that the use of videos supports learning, increases student attention, engagement, enjoyment and motivation, helps assess knowledge levels, facilitates conceptual understanding, and makes the learning process better. Using social media encourages teachers to engage with students rather than using social media, and students will quickly receive information about what the teacher has provided.

Teachers believe that using media can support teacher-directed learning. Learning materials have an important role and responsibility when the learning process takes place, the selection of appropriate learning materials will create conditions to achieve learning objectives. In these learning activities, the teacher must determine the appropriate learning materials and the subjects to be taught. The development of the world of education also affects educational materials, because teachers must be creative in choosing educational materials to teach to students, in other words, teachers have the freedom to choose and use educational materials to facilitate the learning process. Therefore, it can be said that video is a very effective learning tool. the effectiveness of learning can be assessed from students' activities and reactions in the learning process as well as students' understanding of concepts. On the other hand, it is argued that a very important function of learning



media is to overcome barriers to the learning process, convey information and messages effectively and efficiently, increase the effectiveness of learning and achieve learning objectives.

Some Character Values that Students Should Develop Using video media to learn about religion, , diligent, innovative, curiosity, Respect for achievement, friendly or sociable, responsibility All of these character values can be done or stimulated by the tasks given by the teacher using video media This can be done in the early childhood education process. Early childhood education actually starts at home, and the family is a primary educational institution. Physical, psychological, health and welfare needs are always provided at home, including breastfeeding and education. Families are expected to produce a generation that will grow up to be qualified individuals, able to adjust to society and a challenging life. The family is a core group because the family is the first and natural educational community in the development of a child in early childhood.

Teaching process activities carried out learning media through video media. As for the purpose of utilizing video media in learning in early childhood, the general purpose of using learning media is to assist teachers in conveying information or material to provide lessons to students so that information is easier to understand, more interesting, and more interesting to make students happy when using special learning media the objectives are to (1) provide a distinctive and varied learning experience so as to stimulate student interest in learning, (2) develop children's attitudes and skills, (3) create a pleasant learning situation for students, (4) realize an effective learning situation (5) motivate students to learn. The use of video media in early childhood learning is one of the learning strategies that can be applied when learning.

There are many advantages to recording videos to use as learning media. videobelajar is a mediaApplicable to various learning sciences, such as classes, groups, or even aEven if it's a student. it, can't get out of the conditionsStudents Develop TodayDeveloping in the Embrace ofTV Culture, at least every There are many advantages to recording videos to use as learning media including according to videobelajar is a mediaApplicable to various learning sciences, such as classes, groups, or even aEven if it's a student. it, can't get out of the conditionsStudents Develop TodayDeveloping in the Embrace ofTV Culture, at least every. This thing, can not get out of the condition of 'Today's Developing Students Developing in the Embrace ofTV Culture, at least everyThen after learningUsing Learning Video Media can increase the motivation scoreLearning level Participants were given an open questionnaireData Score utilization of Student Support learning it. According to the analysis of the results of the open-ended questionnaire for learners, students feel more motivated to keep up and learn if every time Accompanied by learning and using Online Learning Video Media Combined with previous research, learning in an empowering online environment increases student motivation Situational factors as motivators.

## CONCLUSION

One of the important elements in the learning process is the application of media. The selection of learning video media offers great benefits in conveying information during learning. Learning video media is the most appropriate and accurate learning media to convey information and will greatly help students' understanding with the help of video media, students will know more about the material presented by educators through learning video programs. The elements contained in video media, such as sound, text, animation, and graphics. Through video media, participants are able to gain competence in the cognitive, affective, psychomotor domains, and improve interpersonal skills. The use of video media can increase student enthusiasm in listening or learning, and eliminate boredom. The method taken by students, if there is no change in the mode and

method of learning, with the assisted learning video media, academic achievement will increase and be satisfied. In the learning process, and can improve student learning abilities, academic achievement. The delivery of material through learning video media in learning is not only delivering material according to the curriculum. However, there are other factors to consider that can affect student interest in learning. These are experiences or situations in the surrounding environment and then bring them into the subject matter delivered through the video. In addition, during hands-on sessions, students will find it easier to do what they see in the video than the material delivered through books or pictures. Such activities will make the teaching process easier for both students and teachers. The implications of the findings include: Using videos as learning media can improve students' concentration and achievement and help them understand the material clearly. Learning videos can also foster students' interest when contributing to the learning process, hence video-based learning materials can be used as alternative learning materials.

### AUTHORS' CONTRIBUTION

Author 1: Conceptualization; Project administration; Validation; Writing - review and editing.

Author 2: Conceptualization; Data curation; Investigation.

Author 3: Data curation; Investigation.

Author 4: Formal analysis; Methodology; Writing - original draft.

Author 5: Supervision; Validation.

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