



Utilization of the Kinemaster Application as a Science Learning Media

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ABSTRACT

To foster the spirit of learning in 5th graders at SD 22 Baringin towards science subjects (Natural Sciences), educators are expected to be able to create a media, so that teaching and learning activities are easy to understand, interesting, and easily absorbed by students. Especially now, various countries including Indonesia are being hit by COVID-19. Of course, this has forced the government, as well as schools, to stop all activities in order to stop the spread of COVID-19. This epidemic is certainly very influential on education, where teaching and learning activities that were originally carried out face-to-face, are now turning into online learning (in the network), namely learning without face-to-face, which is carried out from home. With these circumstances, of course, make students and teachers have difficulty in teaching and learning activities. Therefore, educators are asked to be creative in designing all things related to learning activities, namely by making a good media in the form of videos, posters, animated images and others. To create interesting learning media, educators can take advantage of the kinemaster application. This application can provide convenience for all of us in video editing, especially for educators. Kinemaster is an application that provides a complete range of features and effects, this application is also free and easily accessible to many people, no wonder many people use this application to make interesting learning videos.

Keywords: KineMaster, Learning Media, Science

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INTRODUCTION

Education is an important thing found in human life in society or socialization. Education is an effort to improve the ability that humans have towards (Qureshi dkk., 2022). In creating quality human resources, the government obliges the younger generations to follow an education (Asman dkk., 2023). Currently, the world of education is affected by the covid-19 virus (B. Beribe, 2023). The impact of the pandemic on education is: the necessity of the workforce and students to carry out learning online (in the network) (Makniyah & Khotimah, 2023). Teachers are required to have creativity in developing teaching materials as well as all matters directly related to the smoothness of teaching and learning activities (Yeltriana dkk., 2023). Online learning is learning carried

out by students from home without face-to-face contact with educators (Gabriela dkk., 2022). Online learning can make students bored in learning, this boredom can be overcome with interactive and enjoyable learning (Abbott dkk., 2021). To support online learning, all educators and students can make use of technology in learning activities in the form of mobile phones or computers that have been facilitated with internet quota, this aims to ensure that the teaching and learning process continues to run well.

In learning, the most important part is that educators and students can interact during the teaching process (Minarti dkk., 2023). In the teaching and learning process, the teacher can see the development, level of preparation, interests and ambitions of the students (Hikmah dkk., 2022). The most important part of teaching is the student's ability to understand and absorb all the information the teacher has given. The achievement of good learning outcomes can be influenced by the teaching staff, the students themselves, the learning model plan, as well as the facilities and infrastructure that support it (Ulum dkk., 2023). Learning media is an effort to achieve learning goals. Media is a very helpful tool in teaching and learning activities (Ilham dkk., 2022). With the presence of media can provide effectiveness and efficiency, as well as an atmosphere that makes students easier and faster to understand in the learning process. In creating quality student resources, it is expected that many parties and schools participate and participate in the continuity of learning to achieve the learning goals (Basatemur dkk., 2019). The impact of covid-19, making teaching change to online, of course in the process of online teaching teachers use various methods, for example: using Whatsapp application, zoom application, meet application, as well as sending videos explaining the material available on YouTube.

Along with the development of the times, tools or technology are becoming more and more sophisticated, for example mobile phones, we can access and utilize the technology to add insight to our knowledge (Hartini dkk., 2022). Insights into knowledge and technology are very influential in the context of education (Nopiana dkk., 2022). Because if educators have a broad understanding of technology, then it will be easy for those educators to plan or make learning innovations as creative as possible (Najeed dkk., 2022). In fostering curiosity and learning motivation for students, educators can strive to find ways or methods that are suitable and appropriate for students to use (Dianovi dkk., 2022). One of them is that educators are able to create a pleasant teaching and learning atmosphere (Gabriela dkk., 2022). Education is an instrument to see the development of students, both in terms of knowledge, feelings and emotions as well as the behavior of the students (Nadya dkk., 2022). In the 2013 curriculum, teachers as facilitators are expected to be able to meet the needs of students, one of which is: learning resources. One example of student learning resources is learning materials in the form of media. Alternative learning media in teaching and learning is video media.

The use of technology has a very important influence on the sustainability of online learning (Bartsch dkk., 2020). Technology can make it easier for teachers and students to access materials and interact with each other (Nambisan dkk., 2019). The improvement of teachers' skills in distance learning during covid-19, which is an increase in the creativity of the educators in creating or creating effective and interesting media (Gielen dkk., 2019).

Kinemaster is an application for editing and creating learning media videos that can be used on smartphones. One of the efforts to improve teachers' skills in making videos is by following education and training (Staffell dkk., 2019). With media development training with the kinemaster application. Teachers can create and design good and interesting learning videos to improve the quality of learning. The kinemaster application is an application that has complete features, of course it is suitable for use in creating media in the form of vi

At this time, mobile phones are a necessity for students in online learning activities (Rapanta dkk., 2020). Without cellphones, students will experience learning difficulties during the current pandemic. In addition, there are also many students who misuse these cellphones to play online games (Mishra dkk., 2020). Of course this can be detrimental to students because online games can interfere with student learning concentration. Apart from that, the obstacles for students in online learning are network instability and wasteful internet quota (Tumen-Ulzii dkk., 2020). But behind all that, there is a positive impact from online learning, namely students spend more time with their families, educators are able to improve skills in making interesting media, and so on (Cena dkk., 2019). In teaching and learning activities, media is really needed, because the media is a tool or intermediary that can facilitate learning to achieve success in the teaching and learning process (Netea dkk., 2020). Educators are expected to develop interesting media in teaching and learning activities. With the media, the message conveyed by the teacher can be easily understood and absorbed by students. Interesting media, that can be made by the teacher in the form of videos, moving animated images, and in the form of slides with interesting effects.

Online learning is considered less effective for elementary school students (Tzagkaraki dkk., 2021). Because many students do not understand the tasks given by the teacher. In addition, parents of students also experience difficulties in accompanying their children to make assignments (Ching dkk., 2019). Because most parents of students also carry out their daily activities, namely carrying out their work. Therefore, educators are expected to be able to improve their abilities in creating online learning media so that they are able to make students interested in paying attention to this learning. By using media as a tool in learning, of course, it can make learning more effective and enjoyable for students. If learning feels fun then it can have an influence on students' interest and motivation in learning. Assistive devices in the form of media cannot be separated from teaching and learning activities. Because this tool has an important role to achieve the success of learning objectives. If the learning objectives are achieved, it will affect the knowledge and intelligence of the students themselves (Rahmalina et al., 2020). Therefore, the media plays an important role in the learning process, which has the goal of making it easier for students to learn. (Octavianity et al., 2021). To create interesting learning in the classroom, teachers can utilize an application that provides a variety of complete features, one of which is the use of a kinemaster-based application (Annisa & Ramadan, 2021). In making media, the teacher must also pay attention to the material being taught. Of course, the material must be in accordance with the core competencies,

basic competencies and indicators in the teacher's book. Because the teacher's book is a guideline for developing teaching materials or materials. The use of media in learning is also expected to be able to describe or instill character values in students (Wuryanti & Kartowagiran, 2016).

Media will look more interesting if using animations in learning. Animated learning video is an audio-visual medium, in the form of moving and sound images that contain learning material (Gschwandtner dkk., 2019). Educators can be said to be professional in carrying out their obligations, if they can master important competencies, namely: the ability to understand the characteristics of students, the ability to describe attitudes or personalities that become figures of good character and become role models for their students, then the ability to master teaching materials, as well as intelligence in establishing communication with students, fellow educators, parents of students and the surrounding community.

The success of learning is strongly influenced by teaching aids and the completeness of supporting facilities and infrastructure. Media in the form of animated videos is considered effective in growing and improving student achievement. Therefore, kinemaster-based applications are applications that are suitable for use by educators in developing interactive, interesting and creative media. An interesting learning process is a success factor in achieving a goal from the learning itself (Nadia, 2021). But there are also educators who only focus on teacher books and student books in the learning process. Of course this ignores the media as a learning support tool, most of the reasons educators do not use media in their learning are due to limited time to prepare the tools or media, then the educators are less creative because they only rely on books, and the lack of training for these educators in making media that unique and dance

Science subject is a science that discusses living things and the natural surroundings. Science learning is an interesting and fun learning (Munn dkk., 2018), because we can find out what is in the natural environment and its surroundings, such as: living things which include: humans, plants and animals and how these living things reproduce. In addition to studying living things we also learn about inanimate objects and how they work (Kwon dkk., 2020). We can also thank Allah SWT who has created this universe and all its creatures. Most students do not like science learning, because students find this learning difficult and stressful. Even though this view is not all true, because if we are serious in learning, by often reading and understanding the concepts and scope of learning science, we will not feel any difficulties in this lesson (Schulz dkk., 2019). On the other hand, we can be challenged in finding out about the surrounding natural environment. In learning science, so that students easily understand the concepts of learning. It would be nice for educators to design media that is appropriate and in accordance with the material. If the media is made in the form of videos, images in the form of animations and interesting slide-sides. So students will be excited and not bored in learning.

IPA is a subject that contains concepts, theories, and stages. Science learning feels easier and more fun when learning resources and teaching materials are directly related to the daily life that students encounter (Chicco, 2021). In teaching and learning activities,

students are expected to be able to master the learning concepts taught by educators (Dewi S dkk., 2022). Educators are also required to be able to grow and instill character values in students (Kumar dkk., 2020). So that students can easily understand science learning, teachers are expected to be able to find a solution, namely by using video editing applications, such as KineMaster. In making science learning media creative and interesting. Educators can also be guided or watch the steps for making media on YouTube. Because there are lots of tutorials for making learning media using the kinemaster application. Educators can create creative learning aids, such as videos and animated images. With interesting tools, of course, it can foster enthusiasm for learning, interest and motivation for students in learning (Wuryanti & Kartowagiran, 2016). To attract students' attention in the process of learning activities, educators can make subject matter in the form of animations and videos, because this media is considered effective for eliminating students' boredom with subject matter and making it easier for students to absorb learning information.

Teaching and learning activities are a process of interaction between educators and students who influence one another in the implementation of learning (Tokarew dkk., 2019). By learning science, students can understand mastery of concepts, processes of real events, and discoveries that students encounter in the surrounding natural environment (Ali dkk., 2019). In the implementation of learning, students are required to be able to think critically on each discovery (Cowling dkk., 2020). The science material taught in SD/MI must be in accordance with the characteristics of the students and their class level. Because if the material is not in accordance with the characteristics of the students, of course the students will have difficulty understanding the material because the material has not been reached by their knowledge, and this will affect the failure of students in learning (Ben-Daya dkk., 2019). Therefore, it is expected that educators can design and develop learning in accordance with basic competencies and use learning tools in the form of media to make it easier for students to learn (Shafique dkk., 2020). The goal of students studying science is that students can broaden their knowledge by observing everything related to themselves, living things and the surrounding natural environment, by learning science it can foster students' interest in knowing real events from the learning material. In order to make science learning interesting and fun, the teacher is not only a facilitator in explaining the contents of the book, but also planning appropriate methods, media, and approaches in teaching the material.

Media is the most important part in learning so that the message from the teacher is conveyed effectively. The learning media designed can be in the form of audio-visual which can be designed using kinemaster-based applications. In designing and making media, educators must pay attention to what criteria are appropriate for choosing a media that will later be used in learning. The criteria that must be considered are: the suitability of the media with the material being taught, the media available.

Technological advances have an impact on education. The positive effect is that educators can use cellphones or laptops to create unique and interesting media, so that online learning feels more fun and can increase students' interest in learning. Kinemaster

is a form of application of technological advances. Kinemaster presents a simple but attractive appearance, because of the many features and effects that will make students focus on paying attention to the learning media. In learning activities, teachers are asked not to focus on learning resources in the form of books only, but are also expected to be able to develop web-based digital teaching materials. Later this teaching material will be accessed online in the form of a link.

Learning activities using animated video media are expected to make students' attention focused on learning material. If students focus, the learning objectives will be achieved and students' insights will also increase. With the animated video media students can see directly the process of events in the material. With the times, it is hoped that teachers will be more professional and create fun learning. The role of an educator as an actor is to guide and educate by selecting strategies so that learning goes well. Components that affect the learning process are good interaction between educators and students, fun learning, and the use of media that is compatible with the content of teaching materials. The development of teaching materials is a gradual process carried out by the teacher in designing materials and materials that will later be taught by educators to students in order to achieve learning goals. In developing teaching materials, teachers must also pay attention to the appropriate method of learning.

Android is widely used by the public, especially students. Smartphones can provide many conveniences in their use. The use of smartphones can help learning activities. In the development of Android-based media, it is expected that students' literacy will increase. Using learning media in the learning process allows students to focus on impressions or content. Elements of learning media include: animated audio, video, text, and graphics that can make users interact interactively through the available features. Interactive media provides a positive response to increase students' learning interest in very high learning evaluation results and very good learning activities. The initial steps in using the kinemaster application as making learning media are by: first download the kinemaster application on an Android cellphone via Playstore first, then install/install the kinemaster application on your Android cellphone, then open the application, then it will appear the initial display of kinemaster then press the (+) icon on the screen, then a ratio choice will appear, we can choose the ratio according to our needs, to make a learning video, then the right ratio is selected is 16: 9, after selecting the ratio, there will be another display like media, or kinemaster effects, then we have to pay attention to some of the features of the kinemaster application. Kinemaster is a professional video editing program that is easy and accessible on smartphones. In designing and designing learning programs, teachers are also expected to choose the right method in learning. Nowadays, technological sophistication plays an important role in education. Examples of its use are: as a multimedia tool in the learning process which is realized in the form of interactive learning modules which of course aim to attract students' interest, for example by explaining material in the form of sound or audio media which is complemented by learning animations.

Kinemaster is an application that is very helpful for educators in increasing their creativity in designing learning media. The striking difference before and after the use of media in learning is so clear. Which before the existence of media in the form of videos, educators and students only focused on textbooks, and only photos in the learning process. Of course this will make students easily bored and less interested in paying attention to learning material. However, after this kinemaster application, teachers can improve and develop learning media in the form of videos that are equipped with various complete features, as well as slides added with moving animations. Of course, this media can make students more focused and interested in paying attention to learning and increase student interest and motivation in learning. In addition, this media can also make it easier for students to absorb and understand the material taught by educators.

RESEARCH METHODOLOGY

For the most part, there are still many teachers who don't understand how to make creative media in the kinemaster application. Therefore, it is necessary to hold training or workshops to improve the skills of educators in making learning media. Because with the intelligence of educators in designing interesting learning media, it will make learning more fun and not boring. For this reason, it is hoped that the participation of school principals can invite presenters who are experts in making digital-based interactive learning videos. Therefore, it is also hoped that the participation and sincerity of educators in carrying out the training. Because the training provides benefits to the creativity of educators in designing learning media.

The steps for implementing the training: **Planning**, At this stage, the principal first evaluates the implementation of online learning in schools, after that what appropriate and effective media are designed by the teachers so that students can more easily understand, be interested and increase students' interest in learning. **Implementation of Training**, At this stage, the presenter first introduces the application that will be used by educators later in making learning media. Here the application used is based on kinemaster. The reason for choosing this application is because it is accessible and easy to obtain, this application can be downloaded on a mobile phone. Then the presenter shows the methods or steps for making and editing videos that are easy and interesting, then the presenters give an example of how to make learning media in the form of videos for beginners and introduce various kinds of complete features and effects to add animation to the video, after that the teachers asked to practice making learning media in the form of videos, according to their creativity, both on cellphones and on laptops. **Assistance**, After the implementation phase is complete, the presenter opens a question and answer session to educators who take part in the training, the purpose of which is to find out how far these educators understand using the kinemaster application. And to see what are the obstacles faced by teachers in making these learning media.

RESULT AND DISCUSSION

The corona virus has had a huge impact on education. Due to this outbreak, the face-to-face learning system has switched to face-to-face learning, which is called online learning. As a result of this impact, teachers and students are forced to carry out a distance teaching and learning process, namely learning carried out from home with the use of mobile phones as a means of communication. Online learning certainly has obstacles and obstacles for educators and students in the teaching and learning process. One of the obstacles is the lack of stability of the network, there are also students who don't have cellphones because of economic limitations to have them and so on. This online learning makes students less able to understand learning, because it feels less effective if online learning is applied to SD/MI students. Therefore, the right way to overcome these obstacles is that teachers can make interesting learning videos, with video media that can replace face-to-face activities. The more sophisticated technology is, the teacher should be able to master technology, in order to be able to make kinemaster-based interactive video teaching materials. Teaching materials in the form of videos, then added with moving animated images, will of course be effective if used in online learning, because this media can make students more interested in learning and can also increase students' understanding in mastering the material presented.

In online teaching and learning activities, of course there are many limitations that teachers have. This is because many teachers have not received training on online learning systems. So the teacher must choose a suitable supporting application for implementing online learning. The limitations experienced by teachers are limitations in making learning videos independently. Therefore, most teachers prefer to use learning videos on Youtube. This is due to the teacher's difficulties in operating the application for making learning videos. The right solution for this problem is to hold training on using or using the kinemaster application in making learning videos. With the training, the teacher will be skilled in making interesting videos.

Technology-based learning media development training can assist teachers in preparing interesting and up-to-date learning materials for students to use facilities and access information technology. The aim of the training is to increase the teacher's ability to prepare interesting learning materials. The quality of learning can be increased if the teacher can make teaching and learning activities fun and not boring, one of which is by having interesting media that the teacher uses in delivering material. Learning resources in the form of videos can increase students' understanding as well as provide a psychological effect on the presence of a teacher figure in the learning process.

Kinemaster is an application that is widely used by teachers in making videos. Because this application is easy to get and can be installed on a smartphone. In making and editing videos, educators can add animations, pictures, music and other videos. With media in the form of videos, students are more interested, more independent and motivated when online learning takes place. In essence, we can take advantage of technological advances for more advanced aspects of education.

Steps for making Kinemaster videos: Download the kinemaster application first, after that do the application installation, then press the application, then we are finished with the display menu, then press the (+) icon. Then the aspect ratio appears, then select according to our needs. Next there is a button icon on the top right side to add pictures or videos from a smartphone. To add text, media and effects we can press the 'layer' button on the right side to the left. If you want to add music, we just select the 'audio' button. After finishing editing the video, then press the share button. Then, press the “export” button. Next, the video will be stored in our smartphone gallery.

The following are the characteristics of kinemaster: In editing videos, we can add video layer features, which include: media, text, music, and animation. Media support: almost all types of media formats are supported by kinemaster based applications. Audio: we can also add music on kinemaster, apart from that it is also equipped with a live recording feature. Text: kinemaster is also equipped with a text editor feature that provides various types of fonts and styles. Themes: you don't need to worry anymore about editing videos, because we can add various themes that are already available on kinemaster. We can choose which theme we want, of course this theme gives an interesting effect on the appearance of the video. To edit videos, kinemaster is also equipped with features, cut videos, crop, copy text or images, cut, and change the color and style of writing.

Integrated Science Learning is learning that contains concepts, theories, and stages. One example of high-class science learning materials is efforts to maintain balance and preserve natural resources. In this lesson, teachers can use kinemaster as a video editing application. Because there are many complete features and animations in the application. In designing learning media in the form of videos, the teacher must prepare teaching material or materials first. Then the teacher can download animated pictures about efforts to preserve natural resources. As we know efforts or efforts to preserve natural resources are: replanting of deforested forests (reforestation). Here the teacher can add pictures of planting plant seeds. Keep the environment clean. Turn off the lights when not in use. Planting crops. And maintain soil fertility by not littering. Turn off the water when not in use.

To make it easier for students to understand, the teacher adds text about the picture. To make it more interesting, the teacher can also change the font and animation style in the text. Besides that, the teacher can also add additional recordings about the explanation of the picture. Of course, this learning media can divert students' focus to the media displayed by educators. Here is an animated learning video that I made.



Figure 1. Edit material on Kinemaster

The video is about maintaining the balance of natural resources and preserving natural resources. This video is a class 4 science learning video, theme 4 and sub-theme I. With increasingly sophisticated technology, we can learn to master technology as best we can and use it for positive things. My goal in making this science animation video is to educate and make students better understand learning and be able to think critically about the real events that are shown in the video. Based on my observations, the use of media in the form of video is more effective and can achieve success in learning objectives, because with video media, students can easily capture and absorb the information contained in the video. In addition, with media in the form of videos students will be interested and focus on paying attention to learning.

The following is an evaluation obtained by educators in using video as a learning medium for students: **Cognitive**, By observing videos, it can provide a cognitive influence on students, namely in the form of increasing students' knowledge of the material being taught. Then students can absorb and summarize the information obtained from the video, and are able to argue and conclude the material obtained. To determine the success of using the media. Teachers can test exercises in the form of questions related to the material in the learning video. **Psychomotor students**, Students are able to mention what efforts are being made to preserve natural resources, and the teacher also asks students to implement them in everyday life. Such as: planting plants, keeping the environment clean, maintaining soil fertility by putting waste in its place, then saving on water and lights. **Attitude and character of students**, In learning science, teachers are expected to be able to instill character values such as: being responsible, working together, being thorough in all things, being able to argue, being disciplined in time, being tolerant, telling the truth and working hard, caring for others and the environment.

For the most part, teachers already understand how to use kinemaster for media creation. But there are still some educators experiencing difficulties in making these teaching materials. However, this can be overcome by participating in training to develop teaching materials or media in the form of videos. The training aims to enable teachers to utilize technology and information in designing effective and attractive media. The purpose of using media in the form of video is so that educators do not only rely on learning resources in the form of books only. But it is also equipped with learning videos. To make learning more effective and enjoyable. The advantages of learning using video, namely: the video explains the process with real events, can enrich the material explanation with features such as text or images, in conveying messages the use of video media is considered more effective, shows simulation and procedural clearly.

Making learning media in the form of videos via kinemaster has been implemented by teachers at SDN 22 Baringin. With this teaching material, it should be able to temporarily replace face-to-face learning. The use of media in the form of videos is very helpful for teachers and students in online learning. Because the media is made using an application that has many features and animations that will make students interested in learning. Teachers at SDN 22 Baringin usually send the video link to their students via the

Whatsaap group. Then at the end of the video the teacher gives exercises in the form of questions to see how far students can understand the material presented by the teacher. Learning will be more effective if it is added to kinemaster-based learning videos, because with this students will be enthusiastic about opening and playing videos repeatedly, then students can also make video conclusions and get increased learning outcomes.

Here are the advantages and disadvantages of kinemaster: **Advantages**, Easy to get, users can download kinemaster via Playstore or Appstore on smartphones, It's free, this app costs nothing, There is also kinemaster with premium version without watermark with monthly or yearly subscription, Keep updating, kinemaster always updates its newest features so that users are more creative in creating, Complete assets and features ranging from effects, transitions, stickers, free clips, and music, Easy to operate, The resulting video is of high quality. **Disadvantages**, The working screen is small, because we edit it on a cell phone/smartphone, There are ads, because this application is free.

CONCLUSION

Technological advances can have positive and negative influences. We can take a positive influence, that is, we can master technology. In education, teachers are expected not only to rely on teacher and student books. However, teachers are required to be able to create fun, innovative and creative learning. Namely by utilizing kinemaster-based applications to create interesting media or teaching materials. The kinemaster application is a video editing application that is equipped with various complete features, such as: animation, effects, and others. Kinemaster is an application that is suitable for educators to create media or teaching materials in the form of interesting videos. Media in the form of video and animation can make it easier for students to understand learning, so that the media is considered effective and can foster interest in learning and focus of students on displaying the material. With the use of learning media to be fun, interesting and not boring for students. Therefore, we can use and master technology for positive things. Because technology plays an important role in the advancement of education, one of which is as a means of remote communication and making interesting kinemaster-based media and so on.

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