

Use of the TikTok App as a Learning Tool for Elementary Science: The Effect of Style on Objects

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Abstract: 21st century learning is a change in learning patterns and directing the curriculum through an approach that was originally teacher centered to become student centered. In addition, teachers as educators must also be able to utilize IT in learning activities. The use of IT is certainly a challenge for teachers to be more creative and innovative in making learning media. The learning media used must be in line with technological advances. Learning media must also be attractive, inexpensive and easy to use by students. One application that is loved by today's generation is TikTok. TikTok is the easiest and cheapest app to get. With a variety of features so that it can be easily used by teachers and students. The use of the TikTok application is expected to be an interactive learning media that can help teachers convey learning to students, so that students can understand and accept the learning process. This study aims to determine the effectiveness of using the TikTok application as a science learning medium on the effect of force on objects. This study uses descriptive qualitative research and data collection techniques through interviews, observation and documentation. The results of the study indicate that the use of TikTok in learning is effective, it can be seen from the enthusiasm of students in learning and the material presented can and is easily accessible by students.

Keywords: 21st Century Learning, TikTok application, Learning media, Influence of object style, Science learning

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INTRODUCTION

Education is fact social forming habit or action every participant learn to be part from needs common in one society. this could interpreted that education is needs important for society, in particular child age school. because That is, the learning process at school must permanent walk in condition whatever. Indonesia as a developing country already enter digital world waves from development a number of generation. Percentage internet users in Indonesia is 65.7%, which is significant not enough more of 150 million Indonesian people know and use the internet with majority is between the ages of 6 and 25 or generation young. (Dini et al., 2019)

Many digital media and various type application present for help and fulfill needs Public for process and combine data technology in life everyday. Likewise in the world of education in Indonesia, the Covid-19 pandemic has occurred almost all over the world forces schools and participants educate no could doing activity learning. Of course Thing this Becomes a challenge for educators, participants students and parents because they demanded for can exploit and maximize existing technology including take advantage of social media as learning media.

Teachers are required for have knowledge and skills in the field technology information and communication including among them capable using social media as learning media. In Thing this there is various kinds of media can used as learning media used by teachers in convey teaching materials, one is social media TikTok. Based on a survey that circulated mostly participant educate have the most frequent TikTok application seen and used . (SUPRIHATIN, 2022)

TikTok is a application made in China with displays long video content short which was launched in 2014. TikTok a lot loved by many circles start from kids, teenagers up to adults. The TikTok app has feature between that is record sound, record video, *background*, edit, share and duet with user other. According to Muallim (2021), TikTok is a network social media that are Hits and liked many people.

Use This TikTok app is alternative learning media that can be used in learning at school basic. Application this expected capable be an effective learning media so that could applied as a good learning media , interesting and easy accessed by participants educate especially in lesson

knowledge knowledge nature (IPA) in learning Theory influence style to objects in class IV school basic .

METHOD

Study this use design study descriptive qualitative. Study descriptive is type research that provides description or description on something circumstances as clear possible without there is treatment caught object under study . (Ronny Kountur, 2007) method descriptive data collected no numbers but in the form of words or description something. In study this, researcher designing method research which includes, (1) design research, (2) subject and object research, (3) method data collection, (4) research instruments, and (5) data analysis techniques.

Election design study this believed capable describe in a manner comprehensive utilization the TikTok application as a learning medium in learning knowledge knowledge nature (IPA) matter influence style to thing. subject in study this is application Titok, meanwhile object study is utilization the TikTok application as a learning medium knowledge knowledge nature. Data collection conducted by researchers shared Becomes two, namely; (1) primary data obtained from TikTok apps like existing features inside. (2) secondary data obtained from literature supporting primary data such as articles, dictionaries, internet as well related books with research. Instrument study form notes as well as documentation.

Collected data then analyzed, incl regarding utilization data application Tiktok on learning other. Researcher To do observation and observation to the TikTok application, researchers also use various features in the application. Researcher record existing features in application it and its uses. Then researcher to do studies documentation with study various relevant literature with research and results research.

RESULTS

Research used is study descriptive qualitative, related research with ideas, perceptions, opinions nor trust people who will researched. (Dini et al., 2019) In research this for give description and presentation from research already done. Researcher spread questionnaire consisting of 5 items questions, and questionnaires the recapitulated and tabulated for is known score questionnaire based on answer respondents and percentages answer respondents in each question.

Questionnaire the spread to 30 respondents that is participant educate fourth grade at school state foundation 20 Gumarang, Nagari Tigo Silungkang Subdistrict Palembang Regency Religion.

1. Knowledge participant educate to the TikTok app

Question first that is with ask is participant educate knowing or no knowing the TikTok app.

Table 1. Level of knowledge the TikTok app

| Answer | Frequency | Percentage |
|-------------|-----------|------------|
| Knowing | 30 | 100% |
| Not knowing | 0 | 0 |
| Total | 30 | 100% |

From the table above could seen that all participant educate answer knowing the TikTok app , that is as many as 30 people (100%)

2. Response participant educate to application ticktock

Question second is response participant educate to the TikTok app, that is is participant educate download or download application the or no.

Table 2. Response participant educate to the TikTok app

| Answer | Frequency | Percentage |
|---------------|-----------|------------|
| Downloading | 20 | 67% |
| Not download | 6 | 20% |
| Once download | 4 | 13% |
| Total | 30 | 100% |

From the table on could seen that 67% of participants educate download the TikTok app, 20% don't download and 13% ever download application ticktock.

3. Reason download the TikTok app

Question third is, background behind participant educate or reason download the TikTok app.

Table 3. Reasons download the TikTok app

| Answer | Frequency | Percentage |
|--------------------|-----------|------------|
| Entertainment | 10 | 33.3% |
| Fill in time | 11 | 36.7% |
| Look for knowledge | 9 | 30% |
| Total | 30 | 100% |

From the table on as much as 36.7% of participants educate download application the for fill in time, meanwhile as much as 33.3% as entertainment and only 30% participants students who use it for look for knowledge.

4. Evaluation participant educate to the TikTok app

Question fourth is about evaluation participant educate to the TikTok app. At first only 9 people or 30% use TikTok for learning media, however after given information and understanding to utilization application for study, 90% of them show positive response. They give evaluation among them because use application the learning Becomes easy, practical as well as pleasant because could packed with ok.

5. Use TikTok app for learning

There are 90% participants educated show good response to use the TikTok application as a learning medium. because with the TikTok app makes easy learning, practical as well as fun. this proven based on opinion that suitability material on TikTok *videos*, illustrations interesting *videos* and backgrounds will influence message to be delivered to participant educate and awaken feeling spirit study in self participant educate. (Gilang et al., 2017) However no everything participant educate agree because limitations quota and capacity owned storage.

DISCUSSION

1. Tik Tok app

TikTok is one application most popular moment this one has many enthusiasts both in Indonesia and abroad. The TikTok app makes it possible the user for make videos before 15 to 60 seconds long now duration the already can be extended to 3 minutes 10 accompanied music, filters, and more feature creative other and also can used for live. The TikTok application was first launched by the company origin China, ByteDance first launch application that has duration named short douyin. In period 1 year time, Douyin has have 100 million users and 1 billion every video show day. Popularity Increasingly douyin tall make it want to To do expansion to outside China and give name application this with Tik Tok name.

Based on report from Sensor Tower, the TikTok app has downloaded 700 million times throughout the year 2019. This thing make the TikTok app outperforms part existing application under Facebook Inc. TikTok occupies ranking to two after Whatsapp which has 1.5

billion downloader. In Indonesia In 2018 the Tik Tok application gets a appreciation ie crowned as application best in Play store owned by Google. Besides it, TikTok also became the most entertaining application.

TikTok is something possible applications somebody for help express himself on social media. sealin that Tik Tok can too used as internal media delivery a information to others. Form delivery here can conducted in many Thing good that make videos that can add creativity, create *lipsync* nor create a video containing materials about learning or information important.

Table 4. Features in the TikTok app

| Feature | Utility |
|------------------------------|--|
| Record Videos | record video online direct through the TikTok app |
| Trim Videos | cut the existing video there is with especially formerly choose in the gallery |
| record Voice | record flare in a manner direct through the TikTok app |
| Backsound (sound background) | add various type voice backgrounds available in the TikTok app |
| Edit | repair and edit the draft video that has been made |
| Filter | choose and use the video filters available in the TikTok application |
| Effect | make various type video effects available in the TikTok app |
| Add Sentence | make sentence or direct video title appear During video playback or time certain |
| Duet | collaborate with user other TikTok apps |
| Share | share the video already done to multiple social media platforms other |



Figure 1. Inside features Application Tiktok (catch screen)

Learning media with use the TikTok app can run on the device *smartphones* based on Android and iOS. So that could operated anytime and anywhere.

2. Science Learning Media

In the learning process includes five components communication, namely teachers (communicators) and students (communicants), learning teaching materials, learning media and objectives learning. What is meant with learning teaching materials is teaching materials or compiled material in a manner systematic used by teachers and students in the learning process. (Islam, 2020)

Learning media could interpreted as intermediary, link, tool communication like television, newspapers, posters, banners or magazine. Learning media is all something used for distribute message as well as could stimulate thoughts, feelings, attention and will study so that could push learning process occurs. Learning media have very wide coverage, including human, material or constructive study something conditions that make participant educate capable obtain knowledge, skills or attitude. (Miarso. Y, 2004)

Learning media is part not inseparable from activity learning at school . the use of learning media is also a something effort creative and systematic To use create experience new to get help the learning process student. The media plays a role as tool stimulant learn what can grow motivation study student so no easy bored in following the learning process . Viewed from side utilization the medium, learning media can distinguished Becomes two, conventional and modern; 1) Conventional media is organized learning with use learning media simple order of matter lesson could delivered with easy to participant educate. 2) modern learning media is something organized learning with utilizing electronic media, technology information such as computers, OHP, internet and others.

IPAs are developed science based on phenomenon nature and method scientific involvement phenomenon biological and non biological. According to Prananda, (2019) *Natural Sciences (IPA) is part of the Science or Science that originally comes from the English 'science', the word science itself comes from the Latin 'scientia' which means I know.* (Indra & Fitria, 2021)

Science learning is related learning with method look for know about natural in a manner systematically, so no only mastery gathering form knowledge results just but also is a discovery process. On One Theory eye learning lesson Knowledge Knowledge Natural fourth grade elementary school is Theory influence style to items contained in chapter III.

3. Use Application TikTok in learning

Speak about the world of education is speak about knowledge. Where since the world was formed, science knowledge take role big in create discoveries important for good human. The covid-19 pandemic ushered in the world day This is an era of worry at a time challenge . In the middle worry and anxiety, there must challenge skipped. Challenge this indeed could create opportunity new for resolve various problem.

One challenge educator among them is capable use technology information and apply it to learning. TikTok is one of the learning media right alternative in learning. Because, application this no boring if used as well as existing features it is very complete. so that from feature it is very possible very if used as learning media.

Based on results observations and interviews in the field, science learning on the material influence style to objects in SD Negeri 20 Gumarang During this method used just method lecture. it make participant educate perceive that science learning is boring, especially if the teacher doesn't using other teaching media in form practice. With the existence of learning media like this TikTok app, participant educate feel curious and interested in learning. TikTok is existing application no foreign again for participant educate, because every day they always access for entertainment.

With existing features in the TikTok application, the teacher is sued for creative utilise feature so that it looks the more interesting. In application in SD Negeri 20 Gumarang, researcher make Theory for taught to student class IV about influence style to thing. In test the use of this media, researchers convey Theory in the same class however with method different. At a meeting first from beginning until end use method lectures and discussions. But at the

meeting second researcher using learning media with the TikTok app. Moment use application Tiktok, researcher utilise existing features, namely the teacher uses feature shoot video and record voice for open little learning touch on material to be taught. Next researchers also added Images for support explanation Theory like case picture change style thing. Every displayed image the researcher also gave an explanatory text about the picture.

Besides that researchers also use feature record voice for record explanation short. When displaying pictures and text writing, teachers use feature *backsound* for participants educate can more enjoy and stay can focus without feel bored, new then after that's the teacher explained with his voice alone. After delivery Theory finished the teacher invites participant educate for *live* together To use give opportunity for participant students who want ask . At the end teacher session gives *posttest* to participant educate about material that has be delivered earlier and based on the results obtained it turns out ability student in understand Theory more good if use Tik Tok app compared with when use method lecture course, so use the TikTok app becomes effective in activity learning at school .



Figure 2. Activity learning



Figure 3. Activities Simulation learning

CONCLUSION

Based on description above, researcher conclude that utilization deep TikTok app science learning at school state foundation 20 gumarang really right, remember application this have many features so that can support the delivery process Theory in learning and proven with results obtained student when work sheet work participant educate more good if Theory learning be delivered through TikTok app compared with method lecture.

However use application this have a number of deficiency among them is the TikTok app does not can accessible in all the place if no there is internet network, besides that if the material many then the teacher should make videos with make a number of video clip.

As for suggestions for researcher next is need To do study more carry on about integration of learning media based the TikTok app with Theory proper learning so that Theory learning could delivered with ok.

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