

# Online Learning Implementation with Digital Media in Elementary School

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## ABSTRACT

Although there have been many studies on learning in the pandemic era and the new normal era, there is still little evidence to suggest that the implementation of learning can be done online by implementing digital media effectively. The purpose of this study is to explain the implementation of digital media in online learning in Madiun City. The research uses descriptive qualitative kind to examine the implementation of online learning conducted by the 4th grade teacher in the City of Madiun using digital media. Data collection was carried out by means of a questionnaire, observation and interviews with the teacher. The questionnaire was used to determine the difficulty level of the material and the use of the media. The results showed that the implementation of online learning with digital media was carried out from the stages of preparation, delivery, practice and appearance. Meanwhile, the assignment was carried out through Google Forms and made video practice lessons at home using the surrounding environment.

**Keywords:** *Online Learning, Digital Media, Elementary School.*

## 1. INTRODUCTION

Advances in technology in the digital era have made the preparation of learning plans adjusted to advances in technology and information. With the existence of Covid-19, it has caused teachers to teach online, so they have to take advantage of technology to create digital media with learning platforms such as Microsoft Office 365, Google Classroom, WAG, e-mail, and other social media. By using technological media the teachers can adjust learning according to the learning strategies and objectives to be achieved, even though there are still deficiencies that become obstacles during the learning process. Learning is the process of interaction between students and educators and learning resources in a learning environment on based law on the National Education System (no.20/2003). Learning is an activity carried out by students to achieve learning goals [1]. In learning during the pandemic, teachers used more technology-based learning resources using online learning media. The learning media used by teachers usually use Android to send messages or do assignments and discuss using various applications on Android to make various multimedia. States that multimedia is used

in the learning process because it has an increasingly important role in conveying information [2]. Multimedia can be used on the web by adding sites, including sound, video, animation and flash movies for interactivity [3]. Research on the use of android has been researched by [4] in a scientific context and in doing so they identified five emerging themes: differentiation; independence of students and agents; dynamic teaching and learning; and interactive engagement and motivation by learners.

Learning media is very important to explain the material that is done at home, so that teachers must be creative in creating various information and learning materials that are conveyed online. The teacher's demands to convey learning information through online media must be in accordance with the applicable curriculum, so that it is not just giving assignments that are sent via whatsapp messages and done by students. Note that searching, evaluating and reusing materials' are important web literacy skills that all 21st century teachers should have since the world wide web provides a wide variety of resources for teaching [5].

The teacher must provide an explanation of the material and what learning activities must be carried out

during learning at home. So that the presentation of the material will always use both electronic and non-electronic media. Explaining online language learning has driven the need for new teaching approaches and teaching skills different from those used [6]. Media will systematically affect educational institutions such as religious institutions, social institutions, and others [7]. This shows that the presence of the media affects all aspects of life, including educational institutions, so that the learning outcomes achieved by students are different. By using online media, teachers are required to create curriculum-based learning materials, study assignments, discussions and other activities that are in accordance with the learning in the class being taught.

## 2. THEORY

Media is a means of delivering information that aims to facilitate communication and learning [8]. In the large Indonesian dictionary media is defined as a means of communication such as newspapers, magazines, radio, television and so on. Media is a symbol for representing knowledge between teachers and students [9]. The media is an intermediary that delivers information to recipients [10]. Although technology is developing rapidly, the use of media such as newspapers, magazines, newspapers and the like is still in demand by people to read news. Reading newspapers tends to increase social participation in society [11]. One study explains that adults seek health in receiving information by reading newspapers or books, listening to the radio [12]. So that learning media in print and newspapers are still in use today. The development of technology increasingly encourages to take advantage of the results of technology in learning, especially during a pandemic. Learning requires technology-based tools according to the times to achieve learning objectives according to the curriculum. The increasing use of technology such as cellphones, androids, computers requires teachers to develop learning media that can be accessed by students during learning at home. All teachers of Century 21 should be able to solve the problem of basic browser for virtually all information will be accessible through a browser interface [13]. States that Online teachers also need to know how to stimulate active participation and collaboration because they can facilitate online socialization and even help maintain student interest in these subjects in material and learning [14].

Learning media is a means of conveying information to message recipients. The media used by the teacher in the teaching and learning process involves the senses of sight, hearing, touch, smell and taste [15]. Media all are tools that can be used as messages to achieve teaching goals [15]. media is divided into learning tools (instructional aids ) and learning media (instructional media) [16]. The media that is often used by teachers in delivering teaching material is in the form of picture

media, because it is easier to access, print out or reproduce based on the number of students. Educational media, pictures / photos are the most commonly used media [17]. The use of image media serves as a real basis for thinking, reduces verbalism, increases student interest and attention, provides real experiences and fosters independence, and helps develop language and growth of thinking [18]. The classification of learning media, based on its nature, is divided into auditive, visual and audio-visual media, while viewed from the reach of the media there are media that have wide coverage such as television and radio, and media that are limited in space and time, such as films and videos [18]. One example of this type of media is computer-based technology media [19].

Learning media has a function (1) as a learning resource, (2) media as a semantic function that provides understanding of terms, words, language or symbols, (3) media as a manipulative function that presents an event in various ways, (4) media as function fiksiatif capable of capturing, storing, and bring back an old object, (5) the media as a function of distributive to disseminate the material widely, (6) the media as a psychological function ang may shape the attitudes, personality and increase understanding and student learning outcomes [19]. One of the features of the media is that it can capture, store and display objects in various ways that contain meaning.

Digital media that can be used by teachers during online learning in the pandemic era, namely animation-based image media, social media, youtube or other media made by the teacher himself. In delivering teaching materials to students, the use of online media such as power point, hyperlink, poowtoon, Islide, lark, youtube and the like is very necessary. In addition, using the schedule displayed in the home study program for the task of working on the questions. So that teachers use online and offline media to send assignments via WhatsApp Goup, because all students in one class have Android and social media for communication.

## 3. METHOD

This research includes a case study research that analyzes the implementation of learning media used by teachers during learning in the pandemic era [20] emphasized that a qualitative approach is carried out in a naturalistic manner to investigate society in order to obtain a holistic picture The data used are data from social media and interviews with teachers via video calls and Whatshapp using online media in Madiun City. Meanwhile, the data sources are documents, questionnaire results, 32 grade 4 students and 4 grade teachers of SD Taman 01 Madiun. The data is then collected for analysis.

## 4. RESULT

Based on the data obtained from the results of the questionnaire that had been filled in by students, it was found that students had difficulty if they did not use the media in learning, especially students whose parents worked, so that when they did the assignment they had to do it themselves. To overcome these difficulties, grade 4 teachers at SD Taman implemented various media for teaching purposes. This is in accordance with the results of interviews with grade 4 teachers who stated that 60% of the students' assignments had low scores or were below the KKM. The teacher implements digital media in the form of power points, video tutorials, youtube and google forms to find out student learning outcomes, which are sent via the parents 'WhatsApp or the students' own. How to implement digital media by combining material in the form of power points or words, then inserting pictures of motion activities. The video tutorial was used for demonstration. It should be noted that each student has a list of tasks that have been done either in the form of practice. To avoid assignments done by parents, teachers monitor student assignments via video calls about the subject matter that has been worked on, so that there is reflection or follow-up.

The implementation of online learning using digital media can be described as follows.

### 4.1. Preparation

At this stage what the teacher needs to prepare is in the form of material (in this study the material for the theme of the 1st grade in class 4 about the beauty of togetherness is taken ) The form of the material is made in interactive power points, tasks that must be done in either theory or practice, practice questions or assignments for follow-up, and the google meet platform.

### 4.2. Presentation (delivery)

To start teaching, teachers do google meet activities in the morning before parents work, at 07.00 so that students who have working parents can monitor their children's activities. G oogle meet is done by providing the material through a power point about culture in Indonesia. The material provided refers to the 2013 curriculum and thematic books. The time spent on google meet to deliver material is 10 minutes and provide a youtube link to display the Ratoh Jaroe dance instructions followed by practical instructions, performances and assignments.

### 4.3. Practice

In Google Meet, the material given is about the main ideas of the Ratoeh Jaroe dance culture from Aceh. The task is carried out by asking students to write one main idea from the prepared reading text material. Students

write down on blank paper then the teacher points in turn. At the end of the google meet, students are given an assignment via google form about the main idea with different reading texts but the same material about culture.

### 4.4. Appearance

The appearance referred to in this study starts from the appearance of students in following the subject matter, the appearance of following the movements or examples of the Ratoh Jaroe dance videos practiced by students by following the Ratoh Jaroe dance movements and video being sent to the class group in the form of WhatsApp or can be uploaded via an account student social media and provide a link to the teacher. To support the online student learning process the teacher can combine video performances of all students and create learning media. The results of the video can be reused by students so that students can see other students' performances.

The results of interviews conducted with teachers in elementary schools, although learning is carried out online, students have the freedom to choose the learning sequence based on the schedule or assignments that have been made by the class teacher , learning time is more flexible because it is not tied to a coherent schedule and the growth of creativity and independence in learning. From the observations of the journals used by the teacher, it can be seen that the level of student compliance is as follows.

**Table 1.** Student Compliance

Obstacles	Student Compliance Level	Solution
Limited mobile phone / laptop facilities	There are about 3 students who often deposit assignments late from the time limit because they use their parents' cellphones	Take an active role in communicating with walimurid through the WA group association to monitor the level of student activity
Teachers cannot thoroughly monitor assigned assignments	80% of students report assignments before the deadline ends	Collaboration with walimurid regarding student learning schedules and assignments
Students with low academic abilities will have difficulty understanding the material just	80% of students can do assignments well and creatively through social media	Maintain active communication with student guardians regarding learning

Obstacles	Student Compliance Level	Solution
from reading textbooks		constraints at home
Types of practice assignments	75% of students use youtube for submission of practical assignments, and 30% for other social media	Students who own social media are given directions on their use

From the table the level of student compliance in doing assignments is in the high category, because 80% of students are able to do assignments and do online learning with the media on time. Meanwhile, students with low abilities are more concerned with by communicating by videocall to their parents and making direct visits to students' homes.

Evaluation is done by choosing Google Form as a medium for assessment. Google forms is a platform or application service component from google docs. Even though it is web-based, each student can open the link provided by the teacher by using the internet, android or computer. So that teachers do not need paper to record and know student results. The time needed is also economical and the results can be seen immediately. There is a general perception that language learning shifts to online more, because it is cost and time effective [21]. This is in accordance the result of research on the use of google form in Indonesian language lessons starting from the planning stage, the readiness of facilities and infrastructure in evaluation activities has a good impact and benefits from effectiveness, efficiency and attractiveness and appearance [22]. Evaluative skills refer to the analytical ability to assess assignments and courses as a whole and make them necessary modifications to ensure language learning objectives are met [23].

Based on the results of the evaluation conducted by the teacher through the google form application, it is known that the learning outcomes.

**Table 2.** Student Evaluation Results

Average student learning outcomes theme 1	85.00
Writing practice (ideas, sentence structure, neatness)	80.00
Student appearance	80.00

The results of the assessment carried out by the teacher, there were students, seen from the table showing that the average student learning outcomes were 85.00 from one class. The learning outcomes carried out by the teacher use digital media by uploading them to the WhatsApp group as a medium of communication

between teachers and students. Teachers need active participation and collaborations for facilitate online learning and help keep the interest of the students [13].

#### 4. CONCLUSION

The implementation of learning with online media is carried out by teachers in elementary schools through interactive powerpoint learning media to explain material both online with the google meet application or using bandicam, through social media such as youtube, whatsapp, instagram and the like, through google forms to determine the level of learning outcomes students, through digital media carried out from the stages of preparation, delivery, practice and appearance. Meanwhile, to make videos of learning practices at home by utilizing the surrounding environment. And upload it on the student's social account or whatsapp group.

This study only examines the implementation of the media, does not examine the activities of parents both at work and at home. During the learning process, there were no problems related to students not being able to access the web, platform or internet. Even though there are some parents who work, students can still take part in online learning either through the Google Meet application, assignments or Google forms.

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