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Research Article

# Using Google Sites as Science Learning Media to Increase Elementary School Student Creativity

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#### **Abstract**

People have to be creative to survive and compete in the 21st century. Creativity can be developed through the learning process in schools. The learning process using interesting media can accelerate the development of creativity. This study aims to determine the use of google sites to increase elementary school students' creativity in learning natural sciences (IPA). This research is qualitative research with descriptive analysis techniques with library research that tries to describe existing phenomena which happen now or in the past. This research shows that learning using Google sites as learning media can have a good impact on student creativity. Students can be facilitated and the website can also be used to get a variety of knowledge. The condition is suitable with the demands of 21st century skills. In conclusion, Google Sites is suitable and appropriate for use in the learning process. With Google Sites learning media, students can be more creative and can play an active role in the learning process in class.

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## Introduction

Education has a very important role in helping someone to have skills in using technology, communication and information media to prepare human resources who can master 21st century skills so they can compete in the era of globalization (Mardhiyah, 2021). There are four skills that must be owned or known as 4C namely, creativity, critical thinking, communication, collaboration (Maknun, 2018).

In the Ministry of Education and Culture regulation Number 20 of 2016 the competency standard for elementary school graduates is in the skill dimension to have a behavior that reflects a creative attitude (Alawiyah, 2017), so students will be ready to face this increasingly modern era. However, the creativity of students is still low and less developed in formal education. This is indicated by the fact that students are still not actively involved in the learning process because there are still many teachers who use conventional methods and only rely on textbooks.

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Learning in Indonesian elementary schools in the 21st century should not only aim at cognitive understanding but also help students develop their creativity (Muliastrini, 2020). Creativity is a person's ability to provide new ideas that can be applied in solving problems. Indicators of student creativity are having fluency abilities, flexibility abilities, originality abilities, and elaboration abilities (Munandar, 2016).

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On the other hand, if learning is created properly it can support the development of good human resources and student creativity.

The development of student creativity can be applied in the learning process, one of which is in Natural Sciences (IPA) subjects. Science is something that is based on natural phenomena, which natural phenomena will become knowledge if it begins with a scientific attitude and uses the scientific method. The activities of the scientific method will be a science or knowledge that can be applied to mankind. Science is one of the subjects that emphasizes process more than results. This can be used to provide opportunities for students to explore their abilities.

In the science learning process, it is necessary to have media that can support the implementation process so that learning is more interesting and can achieve learning objectives so that it can develop student creativity. The teacher is a motivator and also a facilitator in innovating to develop media that can support the learning process. Learning media are all forms and means of conveying information that are made or used in accordance with learning theory, can be used for learning purposes in sharing messages, stimulating students' thoughts, feelings and willingness so that they can encourage intentional, purposeful and controlled learning processes (Suryani, 2018).

One of the learning media that can be used in the learning process is to use Google Sites media. This software can be used to create science learning media. Google Sites is used in presenting information with a specific purpose related to user goals. This learning media is supported by various features so that it can support the creation of creative and innovative learning media. The use of Google Sites hopefully can develop student creativity.

## Methodology

This research used a qualitative research approach with descriptive analysis techniques with library research where this research tries to describe existing phenomena, which are taking place now or in the past (Creswell, 2012). Additionally, this article examines the concept of creativity and the use of Google Sites in facilitating learning in the 21st century and the purpose of this analysis was to simplify the data to make it easier to read, interpret and be useful for readers (Torres-Carrión, 2018).

#### Results

Learning media plays an important role in the learning process. In other words, without learning media, the learning process will not be carried out optimally, effectively and efficiently. The media is an integral part of the learning system, so it will be related to other components (Sanjaya, 2012).

Advances in information technology nowadays have an impact on various aspects of life (Setiawan, 2017), including the aspect of education. Previously, the learning process was only done by reading books, now it is growing rapidly by utilizing existing media on the internet as learning media. Currently there are many applications that can be used for learning, for example, like Google Sites.

Google sites are personal or professional website services that are provided free of charge. Previously, Google Sites was a product of Jospot, which was headed by Joe Kraus Graham Spencer. Later in October 2006, the company was finally acquired and became part of Google. Google Sites was officially launched to replace Google Pages Creator at the end of February 2008 (Nyoto Kurniawan, 2013).

Google Sites is a product from Google as a tool for creating websites. Users can take advantage of Google Sites because they are easily created and managed by ordinary users (Harsanto, 2017). There are a number of uses that are owned by Google Sites that can be utilized by internet users. One of them is to help teachers in the learning process. Google Sites can be used as learning media by collaborating with various other media such as images, sound, and video. Teachers can also integrate with Google Workspace features such as Google Sites pages, teachers can share them with students as interactive learning media.

Google Sites is a practical solution for learning because it provides learning information quickly and can be accessed anywhere and anytime. Google Sites are becoming popular because they have a number of advantages, such as: (1) Google Sites have a more attractive and fun appearance, (2) the process of creating a site using Google Sites is very easy, (3) Google Sites can provide learning materials that can be downloaded so that students can learn easily, (4) these tools allow users to collaborate in their use, (5) these tools provide 100 MB of free online storage, (6) easy to search using the Google search engine. However, Google Sites still

has some drawbacks, including: (1) functions and features are not as complete as other website builders, (2) Only supports integration with Google applications, (3) website URLs must start with "sites.google.com/site/" which is too long and not varied.

For those who are not used to it, this media is indeed considered difficult to implement because of several obstacles such as the ease of using online learning applications, as well as several other technical obstacles. Despite the existing technical constraints, Google Sites is able to make it easier for teachers, especially when providing learning materials online. For example, both teachers and students will be confused by the amount of material that is distributed every day during learning. That won't happen when teachers use Google Sites.

#### Discussion

Creativity skills in the 21st century is important in learning natural sciences (IPA). The ability to express good ideas or ideas in discussions and questions and answers can affect students' creative thinking abilities (Riski Ayu Candra, Agung Tri Prasetya, 2019). Students who have high creativity can obtain higher learning outcomes compared to students who have low creativity (Sulistiyono, 2017). Creative character indicators include presenting something uniquely and presenting new ideas, daring to make decisions quickly and accurately, wanting to keep changing and taking advantage of new opportunities, being able to solve problems innovatively, flexibly and critically (Samani, 2012).

Research conducted by (Dewi, 2020) regarding "Pengembangan E-Learning Berbasis Google Sites Untuk Meningkatkan Prestasi Belajar Siswa" shows that Google Sites can improve learning achievement. This elearning is a learning model that is relevant to the development of educational technology in the 4.0 revolution era as it is today. By implementing e-learning based on Google sites into distance learning, it will certainly be very effective and efficient in increasing student achievement.

Research conducted by (Pubian & Herpratiwi, 2022) regarding "Penggunaan Media Google Site Dalam Pembelajaran Untuk Meningkatkan Efektivitas Belajar Siswa Sekolah Dasar" shows that Google Sites can increase learning effectiveness. In this study, it can be clarified that Google Sites is learning media that is

easily used by elementary school students, especially in grade V. According to the results of data analysis, students really like Google Sites as online learning media because it is very practical to use. According to the researchers, the greatest benefit from using Google Sites is that students no longer use a lot of books to study. They only need to receive material that has been made by the teacher with clear material.

With Google Sites learning media, students can be more creative and can play an active role in the learning process in class. The teacher's role in this case is only coordinating teaching and learning activities, creating a conducive classroom atmosphere and helping students who experience difficulties.

### **Conclusion and Recommendation**

It can be concluded that learning using Google sites as learning media can have a good impact on student creativity. Students can be facilitated and the website can also be used to get a variety of knowledge. The condition is suitable with the demands of 21st century skills. In conclusion, Google Sites is suitable and appropriate for use in the learning process. Additionally, it is important to learn Google Sites for students in the classroom as a technology to support students' learning related to 21st century skills.

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