



## Utilizing the Youtube Platform to Familiarize Students with Mathematics Literacy in Elementary School

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### Abstract

The aim of this research is to familiarize elementary school students with mathematical literacy in utilizing digital media, one of which is the YouTube platform. Literacy here means reading and writing symbols, numbers and understanding how to solve basic mathematical problems. The research method uses qualitative research with a qualitative descriptive approach, namely an approach that aims to understand phenomena in depth in a natural context. Primary data was obtained directly through interviews, observation and documentation of the main informants consisting of the principal (1 person), Class Teacher (1 person), and 25 class V students of Al Masyhuriah Islamic Elementary School, Kateng Village (16 male students and 8 female students). Data analysis was carried out in three stages, namely: (1) Data reduction; (2) Presentation of data; and (3) Drawing conclusions. Based on research results, it has been shown that the use of the YouTube platform can help familiarize students with mathematical literacy in the affective, cognitive and psychomotor domains. This research has the limitation that students' mathematical literacy habits are influenced by their ability to use and utilize YouTube as a learning resource and source of information. This research also cannot be generalized to the entire student population, because it was conducted on a selected sample group.

**Keywords:** YouTube Platform, Mathematical Literacy

### Abstrak

Tujuan dari penelitian ini adalah untuk membiasakan siswa SD dengan literasi matematika dalam memanfaatkan media digital, salah satunya adalah platform youtube. Literasi di sini berarti membaca dan menulis simbol, angka, dan memahami cara memecahkan masalah matematika dasar. Metode penelitian menggunakan penelitian kualitatif dengan pendekatan deskriptif kualitatif, yaitu pendekatan yang bertujuan untuk memahami fenomena secara mendalam dalam konteks alami. Data primer diperoleh secara langsung melalui wawancara, observasi, dan dokumentasi informan utama yang terdiri dari Kepala Sekolah (1 orang), Guru Kelas (1 orang), dan 25 siswa kelas V SD Islam Desa Al Masyhuriah Kateng (16 siswa laki-laki dan 8 siswa perempuan). Analisis data dilakukan melalui tiga tahap, yaitu: (1) Pengurangan data; (2) Penyajian data; dan (3) Menarik kesimpulan. Berdasarkan hasil penelitian, telah terbukti bahwa penggunaan platform youtube dapat membantu membiasakan literasi matematika siswa di ranah afektif, kognitif dan psikomotorik. Penelitian ini memiliki keterbatasan bahwa pembiasaan literasi matematika siswa dipengaruhi oleh kemampuannya dalam menggunakan dan memanfaatkan Youtube sebagai sumber pembelajaran dan sumber informasi, penelitian ini juga tidak dapat digeneralisasi ke seluruh populasi siswa, karena dilakukan pada kelompok sampel terpilih.

**Kata kunci:** Platform Youtube, Literasi Matematika

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## Introduction

Mathematics literacy is an essential component of mathematics education that has received widespread attention globally, especially through OECD initiatives in the Programme for International Student Assessment (PISA) program held in various countries. However, mathematical literacy is still a big challenge, especially at the basic education level. In Indonesia, students' mathematical literacy skills are still relatively low, as reflected in the unsatisfactory results of the PISA survey. This shows that mathematical literacy is not only a learning goal, but also a major foundation in basic mathematics education. One concrete example was found at Al Masyhuriah Islamic Elementary School, Kateng Village, where initial observations and interviews with teachers showed low mathematical literacy of students. The causative factors include the use of learning media that is still conventional and the dominance of textbooks that contain formulas and questions without adequate contextualization. Learning with text or conventional media makes it difficult for students to understand the material delivered by the teacher, so now students use the Youtube application as a support in learning activities. (Tinambunan & Siahaan, 2022)

In this context, the use of digital media such as YouTube is a potential innovative alternative. The rapid development of information technology, supported by the widespread use of social media, has made YouTube one of the dominant and easily accessible platforms. YouTube's social media can be accessed on websites that are created to upload videos that can be shared with viewers on the Internet, because Youtube is a social media that is at the peak of its glory to the masses now. YouTube is not only a means of entertainment, but can also be used as an effective learning medium, as it provides a variety of educational content, including in the field of mathematics. (Putri et al., 2025) (Stuart O'Neill et al., 2025)

In addition to being entertainment, Youtube can also be used as a means of communication and information. Several studies have stated that the use of YouTube can increase students' interest in learning, encourage teachers' creativity, and expand access to cutting-edge and contextual learning resources as well as the use of appropriate technology to make them more enthusiastic. In addition, this platform allows students to obtain information visually and audioloy, thus supporting their critical and analytical thinking process in understanding mathematical concepts (Faiqah et al., 2016). (Perwitasari & Aviory, 2024). (Damayanti & Juliawati, 2024).

The use of YouTube in mathematics learning can also help overcome obstacles that have been faced, such as difficulty understanding abstract concepts, limited media, and low math literacy. This media is able to clarify the delivery of material by teachers in a concise, concise, and interesting manner. Therefore, elementary school students need to be guided to use this platform wisely as a learning medium, not just entertainment. Thus, the use of YouTube can be a means in forming mathematical literacy habits, both in terms of reading, writing, and arithmetic (Yulianti et al., 2025), (Bambang Mokhamad Akbar, 2024), (Fauziah, 2022). and (Parera et al., 2025).

Mathematical literacy itself is a basic competency that is very important in equipping students with global skills, including the ability to think logically, reason, and solve contextual problems in daily life and some studies show that there is still a gap in the achievement of mathematical literacy indicators between students with low, medium, and high abilities. This confirms that a deep understanding of mathematical concepts, the use of symbols, and representation skills still needs to be strengthened. Therefore, mathematics learning should not only be oriented to the ability to calculate, but also to the development of mathematical literacy as an integral part of the education (So Paulo & Suarni ,

2022) (Munahefi & Lestari, 2023) (Kumala Wardani & Mariana, 2024). (Rezky et al., 2022) (Azmiyah et al., 2025) and education process. (Marisca et al., 2025).

The constraint of low student mathematical literacy that is still found in most elementary schools is also caused by the lack of mathematics literacy-based learning practices by teachers and the lack of parental involvement in accompanying children to study at home. For this reason, various strategies need to be implemented, such as the application of the Realistic Mathematics Education (RME) approach to increase the effectiveness of learning and students' problem-solving skills. In the framework of 21st century education, a shift from a conventional approach to a technology-based digital approach is a must. This is where digital literacy becomes an important complement to mathematical literacy, as it provides students with technical skills, critical understanding, as well as communication skills and active participation in the Literacy class, in this case, not only serves as a learning tool, but also as a provision for students to become individuals who are adaptive to changes and developments of the times. Literacy that is closely related to the ability to think critically is mathematical literacy. Mathematical literacy is closely related to the ability to reason using language and mathematics and is a student's ability to understand, analyze, and solve mathematical problems in a variety of contexts of daily life (Waldi Barus et al., 2023) (Balqis & Gusti Aji, 2025) (Trismardiana & AnnaScarlett, 2025). (Dian Pratiwi et al., 2023) (Arini Hidayati et al., 2025) (Sinaga & Nasution, 2023) .

## Method

This research uses a qualitative descriptive approach, which is an approach that aims to understand phenomena in depth in a natural context. Primary data was obtained directly through interviews, observations, and documentation of the main informants (Irwan et al., 2022) (Yewangoe, 2014) , consisting of the principal (1 person), the Classroom Teacher (1 person), and 25 grade V students of SD Islam Al Masyhuriah Kateng Village (16 male students and 8 female students). The focus of the research is the use of the YouTube platform in familiarizing mathematics literacy in elementary schools.

Observation techniques are used to observe the behavior of students and teachers in the use of YouTube as a learning medium and the conditions of the school environment. Interviews were conducted directly with school principals, classroom teachers, and students to explore their experiences and views regarding the digital media-based learning process. Documentation is used to collect supporting data in the form of school records, transcripts, and administrative documents.

Data analysis is carried out through three stages, namely: (1) Data reduction, by filtering and selecting important data to focus on research objectives; (2) Presentation of data, in the form of descriptive narratives and relevant citations; and (3) Drawing conclusions, carried out gradually and repeatedly during the research process to obtain valid and meaningful findings. (Irwan, 2021)

## Results and Discussion

### Result

*The youtube platform* at SD Islam Al Masyhuriah in its role in improving students' digital literacy is quite influential, based on the results of research that has shown that the use of the youtube platform can familiarize students with mathematical literacy in the affective, cognitive and psychomotor realms. This is very important in a learning process today, because the main competency that students need to be able to adapt to the 21st century

society is literacy. Mathematics literacy competencies in students are also able to foster an independent and responsible attitude. The attitude of responsibility in question is not only limited to the responsibility of collecting tasks but also the responsibility in finding sources of information as an effort to solve problems. In addition, in the affective realm, students are able to collaborate on affective attitudes, cooperation, responsibility, and independence. Meanwhile, the results of the study show that learning by utilizing the youtube platform that leads to the cognitive domain is able to direct them in getting used to critical thinking skills. Students' cognitive understanding in this study is illustrated in 3 phases that hone students' critical thinking skills, namely through the phases of seeking information, acquiring information and synthesis of knowledge. On the other hand, digital literacy competence in the use of the youtube platform in the psychomotor realm is able to improve students' skills in using the youtube platform in finding learning support materials. It even helps them search and understand various disciplines independently. (Irwan, 2021)

The use of *the youtube platform* by students in meeting their academic information needs is to support schoolwork, exams and information fulfillment in various aspects of life. Information needs arise when the knowledge a person has is less than what is needed, thus encouraging a person to seek the information needed from various available sources. This is also explained by the fact that the YouTube platform was chosen as the right literacy medium because of the extensive process of disseminating information, and has also been shown to have an influence on the development of children's interpersonal communication such as openness, empathy, supportive attitudes, positive attitudes and equality with the help of supervision. (Rosiana et al., 2023)

As stated by the information and communication technology (ICT) has developed in such a way that it now not only affects many aspects of daily life but also progressively affects learning activities in the classroom. The use of ICT at this time is very necessary because the demands of technological developments by utilizing it will be felt a lot of convenience. As with utilizing youtube in learning, students are expected to be able to access the material on youtube again to learn independently. This gives an idea that the youtube platform in improving students' digital literacy is very important in the world of education in order to promote national education which includes educating the life of the nation, and developing Indonesian people as a whole, namely human beings who believe and are devoted to God Almighty and have noble ethics, have knowledge and skills, physical health, and spiritual, a steady and independent personality as well as a sense of community and national responsibility. (Maulida Husnani et al., 2025)

Improving digital literacy skills in educational institutions in this case will be able to form students who are engaging, qualified and able to compete internationally more easily and efficiently. The development of communication and information technology today also plays a role in changing the mindset and learning attitude of students. They can build a social identity related to the anxiety of "who am I" and "in which group do I fit in". Students as digital natives are presented with a variety of cutting-edge communication technology options, with these various choices it is difficult for students to avoid digital literacy from threats that can also arise from various sources through social networks, which can happen at any time when there is a lack of application of internet etiquette among students.

## Discussion

SD Islam Al Masyhuria is one of the private schools in Kateng village and is also an institution that has used the 2013 curriculum and has implemented digital literacy, one of the






digital used is the youtube platform in the learning process carried out by teachers, in fulfilling quality, efficient, and relevant education, as well as high competitiveness. Digital literacy skills continue to be evaluated as one of the competencies to meet quality education. At SD Islam Al Masyhuriah, grade V teachers have used the youtube platform for learning and to improve students' digital literacy skills. The utilization carried out by teachers is by giving assignments to students with certain topics based on their subjects.

The use of learning media is very necessary because learning media is one of the components in five aspects of the teaching and learning process. The youtube platform is used by teachers as a learning medium so that students can continue to carry out learning at home through smartphones. Learning is carried out by teachers using the youtube platform, so teachers have carried out competence in utilizing ICT. Learning by applying digital (online) devices is in line with the regulation of the minister of national education number 16 of 2007 concerning the qualifications and competencies of teachers which contains that teachers must be able to utilize ICT. Furthermore, Permendikbud number 68 of 2014 concerning the role of ICT educators and computer skills educators who support teachers in carrying out learning using or utilizing technology. (Siti Aisyah et al., 2025)






The changes of the times that are so dynamic in the process of its very rapid development can only be followed by digital literacy skills. Thus, the urgency of providing digital literacy skills to students as a provision for life skills for students, especially in grade V of SD Islam Al MAsyhuriah, Kateng village, so that in carrying out the learning process, students are able to compete with people who have technological or digital literacy skills all over the world. This shows that the variable role of the youtube platform with the variable of increasing students' digital literacy is relatively strong because it can make teachers and students more creative in the use of technology, the utilization of learning resources that are up to date, students' skills in using new media, students obtain a wider range of information, and students have experience from the internet.

Before literacy starts, teachers prepare links or site addresses that can be adjusted to the material to be studied or related information, Furthermore, students can search for information through the youtube platform, even though the teacher monitors all activities carried out by students, so that the information sought by students is obtained from valid and relevant sources. The use is adjusted to the need to achieve the learning goal, namely getting used to literacy through the youtube platform.

Examples of links and site addresses that can be accessed by students are as follows:

Solving problems related to the KPK and FPB	
	<u>Mathematics student book for Grade 5 Elementary / MI</u> , written by Meita Fitriawanawati et al., published by the Ministry of Education and Culture in 2022, chapter 2 "KPK and FPB", pp. 28-66
	<u>Mathematics Teaching Materials at PMM I Mahir FPB and KPK</u> , uploaded by Abdul Rahmat, S.Pd. (2022)
	<u>YouTube Video: <i>Smallest Federal Multiples (KPK)</i>   <i>Elementary Mathematics</i></u> , Upload Kejarcita (Aug 11, 2020)
	<u>YouTube Video: <i>The Biggest Federal Factor (FPB)</i>   <i>Elementary Mathematics</i></u> , Upload Kejarcita (Aug 18, 2020)
	<u>YouTube Video: <i>Part 1: How to Determine Multiples of Numbers and Number Factors</i></u> , uploaded by Channel Learning Room (Sep 13, 2021)



	<u>YouTube Video: <i>Part 2: How to Determine Excellent Factors and Excellent Factorization</i>, uploaded by Channel Learning Room (Apr 9, 2022)</u>
	<u>YouTube Video: <i>Part 3: How to Find FPB and KPK with the Unravelling Method</i>, uploaded by Channel Learning Room (Apr 12, 2022)</u>
	<u>YouTube Video: <i>Part 4: Easy Ways to Determine FPB &amp; KPK with the Factor Tree Method</i>, Channel Learning Room upload (May 9, 2022)</u>
	<u>YouTube Video: <i>Easy Ways to Determine FPB and KPK Using the Table Method</i>, uploaded by Channel Learning Room (Jun 18, 2022)</u>
	<u>YouTube Video: <i>How to Solve FPB and KPK I RBC Story Problems</i>, uploaded by Ruang Belajar Channel (Nov 19, 2022)</u>

### Limitations

Limitations This study proves that students' mathematical literacy habituation is influenced by their ability to use and utilize Youtube as a learning source and source of information. This study has limitations, namely that the research results cannot be generalized to the entire student population, because it was conducted on a selected sample group. Differences in context, such as the learning environment or curriculum, can affect the outcome. The research may not be in-depth enough in analyzing the use of the Youtube Platform in getting used to students' mathematical literacy at various levels of difficulty they face, difficulty in focusing on following the tutorial or direction from the teacher because they are used to using youtube not as a material for mathematical literacy to use for other things. More research is needed to understand how their math literacy abilities are in more complex contexts. Individual differences need to be considered due to individual factors such as motivation, interests, and learning styles, which can affect their math literacy habits. Finally, the assessment tools or platforms used to measure their math literacy habits may have limitations.

### Conclusion

Based on the results of the research and discussion that has been obtained, it can be concluded that the youtube platform plays a very important role in familiarizing the mathematical literacy of students of SD Islam Al Masyhuria in Kateng village, namely the use of the youtube platform creates student interest and helps teachers and students be more creative in the use and use of technology, the utilization of learning resources that are *up to date*, students' skills in using new media, students obtain a wider range of information, and students have experience from the internet so that they can familiarize themselves with students' mathematical literacy by fulfilling competencies in the form of technical skills, critical understanding, and communication skills and actively participating in learning. In addition, the use of youtube is also very helpful for teachers in delivering material very easily, efficiently and effectively in today's technological age, so as to help students understand the material well and help them to feel happy in getting used to mathematical literacy and trying to follow the basic mathematics learning process with great enthusiasm.

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