

## Development Of Digital Teaching Materials For Mandarin Lessons At Sds Kristen Tabqha Batam

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### Abstract

This activity is aimed at compiling a digital teaching material that can be used to improve the quality of learning between teachers and students in schools, where the object of this activity is SDS Christian Tabqha Batam school which is an educational institution for elementary school level in Batam City. This school carries out a learning process that still uses teaching materials that are analog or non-digital so that the learning process is continuously stagnant to date. Therefore, in the period from September to December, this activity focuses on compiling digital teaching materials as a solution to improve and develop the quality of learning at SDS Christian Tabqha Batam school, especially for Mandarin subjects. The process of implementing this activity uses observation and interview methods in collecting data. As a result, this activity created outputs in the form of 6 student digital teaching materials which were divided according to the number of elementary levels in the form of powerpoint files. With this, it is hoped that SDS Christian Tabqha Batam can provide an even better learning process for its students, especially in Mandarin lessons. And finally, the recommendation for the future is to create digital teaching materials for all subjects contained in the curriculum at SDS Christian Tabqha Batam school so that the learning process as a whole can develop fully.

**Keywords:** *Digital Teaching Material, Educational Institution, Mandarin*

### Introduction

The school learning system in Indonesia has undergone quite rapid and influential changes in the last 2 (two) years. This development began in 2020 due to the COVID-19 Pandemic, so teaching and learning activities must be carried out online as a way to minimize the impact of the spread of COVID-19. However, online learning is not entirely a solution to the development of education at this time because it produces various positive and negative impacts.

The positive impact of the learning transition towards online methods is to create a more relaxed and practical learning atmosphere, namely in terms of giving assignments and reporting assignments every time (Utomo, et al. 2022).. Then, this online learning can also be done anywhere and anytime, students will also learn more about rapidly developing technology, students can also have more time to access the wide outside world and have access and monitoring. which is faster and easier considering the system is implemented online. As a result, online learning

provides new experiences for teachers and students in the school teaching and learning process (Nafrin & Hudaidah, 2021).

On the other hand, the negative impact that arises from this online learning even though it provides a new experience for teachers and students is the complexity of the constraints resulting from this learning process. These obstacles include teachers not being able to directly monitor the student's condition, technical difficulties in carrying out online learning, decreased student learning motivation, internet quota is becoming more and more used, so that the role of parents is one of the keys to these students (Claudya, S. E., et, al 2023). As a result, there were several schools during the COVID-19 Pandemic that still chose the offline or offline learning process (Budiman et al., 2022).

However, with the passage of time and the development of positive cases of COVID-19 to date, the school learning system has begun to slowly transition back to offline methods. Therefore, this condition has made many schools in Indonesia begin to carry out their teaching-learning process offline again, as has also been implemented by a school in Batam City named SDS Kristen Tabqha Batam. SDS Kristen Tabqha Batam is a private formal educational institution engaged in basic education (SD) in Batam City. This school has been established for 15 years and is located in the Center Park Complex, Taman Baloi Village, Batam City District. 367/421.3/DIKDAS/X/2010.

The problem identified at Tabqha Batam Christian SDS lies in one part of the entire learning system implemented by this school, namely in terms of the use of student learning materials. Even though Tabqha Batam Christian SDS has carried out teaching and learning activities that are one hundred percent offline, the use of teaching materials which should be one of the factors students can focus on listening to the teacher's explanation but the teaching materials used are still monotonous and interesting in the form of templates that do not interesting or just words. This shows that the application of learning innovations in these schools is still minimal in terms of the use of teaching materials, even though the transition to the learning system that occurred due to the COVID-19 Pandemic has impressed schools to innovate in providing learning for their students.

In addition, the urgency of this problem can be further increased thanks to the continuous encouragement of technological developments. Through technology, learning activities can be carried out anytime and anywhere without having to use books, but can use media created by technology (Mulyani & Haliza, 2021). If it is associated with the use of modules, technology also creates innovation in the field of education towards digitization. This can be demonstrated through the use of electronic terms in education, such as electronic materials, electronic books, electronic bibliotechnics, and other educational electronic equipment and tools (Tampubolon, 2021). Therefore, the use of teaching materials which is especially a problem for SDS Kristen Tabqha Batam requires innovation that leads to interesting teaching materials and makes students enthusiastic about learning.

Therefore, based on the background above, SDS Kristen Tabqha Batam found a problem, namely the lack of innovation in the use of student learning materials in the teaching-learning process at schools which have completely offline or offline methods. Therefore, through this practical work activity, the author plans to compile teaching materials that focus on Mandarin subjects for Tabqha Christian SDS Batam. The process of developing this practical work will later be presented

in the form of a practical work report with the title "Compilation of Mandarin Teaching Materials at Tabqha Christian SDS Batam".

## Methods

In terms of type, the data acquisition carried out by the author in this practical work project is primary type data, which is obtained directly to answer a problem until the project objectives are achieved. Then the method for obtaining project data consists of two methods, namely observation and interviews. Observation is defined by Hasanah (2017) as a data collection method in the form of observation and recording which can make it easier for a researcher to obtain information about the world around him. While the interview is a research tool for actions between two persons or more in order to give an understanding of each individuals' thoughts and emotions (Coleman, 2019).

The process of implementing this practical work project begins with analyzing the condition of SDS Christian Tabqha Batam School which is a partner using observation and interview methods. After that, proceed with identifying and formulating the problem after finding and analyzing these conditions. Then the formulation of this problem finds a solution in which a digital teaching material will be planned for the school which focuses on Mandarin subjects for students from grades I (one) to VI (six). Once planned, start preparing the digital teaching materials until it ends with an evaluation of the results of the implementation process for the school. The project implementation schedule is described below:

Table 1.  
Implementation Schedule

No	Date	Activities
1	October 3 <sup>rd</sup> , 2022	Partner location survey and observation
2	October 11 <sup>th</sup> , 2022	Preparation of project proposals
3	October 26 <sup>th</sup> , 2022	Planning of preparation of student digital teaching materials
4	November 4 <sup>th</sup> , 2022	Implementing of preparation of student digital teaching materials
5	November 21 <sup>st</sup> , 2022	Evaluation of project outputs
6	November 30 <sup>th</sup> , 2022	Finalizing project outputs with partner
7	December 7 <sup>th</sup> , 2022	Preparation of project reports
8	December 21 <sup>st</sup> , 2022	Finalizing of project reports
9	December 28 <sup>th</sup> , 2022	Evaluation of overall project activities

Source: Author (2022)

## Results and Discussion

The output of practical work activities designed by the author for Tabqha Christian SDS Batam is in the form of digital teaching materials for Chinese students which as a whole consists of 6 (six) grade levels, starting from class I (one), class II (two), class III (three), class IV (four), class V (five), and ending with class VI (six).

### First Grade Digital Teaching Materials

The design of teaching materials for learning Chinese students at the first grade level consists of several materials that must be learned such as: praying in

Mandarin, Mandarin vocabulary, conversations in Mandarin and singing in Mandarin. Aside from being a learning material, the design of this teaching material was also prepared for Tabqha Christian SDS students who are more interested in learning Mandarin. The description of each of these first grade teaching materials is as follows:

1) Praying in Mandarin

In this first material from first grade teaching materials discussing how to pray in Mandarin or how Christians pray in Mandarin this teaching material is described as below:

Picture 1.  
Praying Material in Mandarin for Grade One

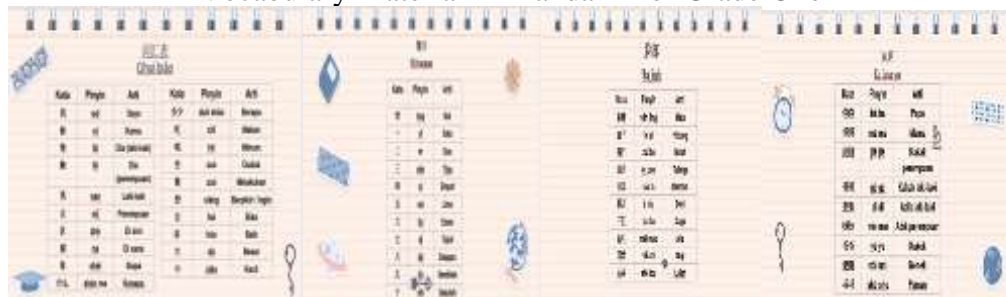


Source: Author (2022)

2) Vocabulary in Mandarin

In this second material from first grade teaching materials, it discusses vocabulary in Mandarin with various groups, one of which is the calculation of this teaching material is described as follows:

Picture 2.  
Vocabulary Material in Mandarin for Grade One



Source: Author (2022)

3) Conversations in Mandarin

In this third material from the first grade teaching materials, it discusses how to arrange words for communication which focuses more on self-introduction using Mandarin. The illustration of this teaching material is described as below:

Picture 3.  
Conversations Material in Mandarin for Grade One



Source: Author (2022)

4) Singing in Mandarin

In this fourth material, the first grade teaching materials discuss how to sing in Mandarin, namely the happy birthday song and the little stars in the sky. This teaching material is described as follows:

Picture 4.

Singing Material in Mandarin for Grade One



Source: Author (2022)

**Second Grade Digital Teaching Materials**

The design of learning materials for Chinese students at the second grade level consists of several materials that must be learned such as: praying in Mandarin, Mandarin vocabulary, conversations in Mandarin, short stories in Mandarin and singing in Mandarin. Aside from being a learning material, the design of this teaching material was also prepared for Tabqha Christian SDS students who are more interested in learning Mandarin. The description of each of these second grade teaching materials is as follows:

1) Praying in Mandarin

In this first material from the second grade teaching materials, it discusses how to pray in Mandarin which is more in-depth than the material at the previous level, that is, apart from praying it also teaches us to be grateful and pray for our teachers to always be healthy. This aims to help students in praying also become more specific and clearer for the sake of personal spiritual development in the future. The teaching materials are described as below:

Picture 5.

Praying Material in Mandarin for Grade Two



Source: Author (2022)

2) Vocabulary in Mandarin

In the second material of the second grade teaching materials, it discusses vocabulary in Mandarin with various groups, namely animals, occupations and colors. This teaching material is described as follows:

Picture 6.

Vocabulary Material in Mandarin for Grade Two



Source: Author (2022)

3) Conversations in Mandarin

In this third material, second grade teaching materials discuss how to arrange words for communication which focuses more on conversations between students and teachers as well as conversations with friends using Mandarin. The illustration of this teaching material is described as below:

Picture 7.

Conversations Material in Mandarin for Grade Two



Source: Author (2022)

4) Singing in Mandarin

In this fourth material from the second grade teaching materials, it discusses how to sing in Mandarin, namely the Merry Christmas song and spiritual songs named Zǎo chén xǐ shù gē. This teaching material is described as follows:

Picture 8.

Singing Material in Mandarin for Grade Two



Source: Author (2022)

5) Short Stories in Mandarin  
 In this fifth material, second grade teaching materials discuss how to read or write short stories, that is, hard work will definitely pay off in Mandarin. This teaching material is described as follows:

Picture 9.  
 Short Stories Material in Mandarin for Grade Two



Source: Author (2022)

**Third Grade Digital Teaching Materials**

The design of learning materials for Chinese students at the third grade level consists of several materials that must be learned. Aside from being a learning material, the design of this teaching material was also prepared for Tabqha Christian SDS students who are more interested in learning Mandarin. The description of each of these third grade teaching materials is as follows:

1) Praying in Mandarin  
 In this first material from the third grade teaching materials, it discusses how to pray in Mandarin which is even deeper with deeper meanings, namely apart from praying that the class will run smoothly, hopefully our teachers are always healthy and always be thankful. The materials are described as below:

Picture 10.  
 Praying Material in Mandarin for Grade Three



Source: Author (2022)

2) Vocabulary in Mandarin

In the second material of the third grade teaching materials, it discusses vocabulary in Mandarin with various groups, namely weather, direction and action. This teaching material is described as follows:

Picture 11.

Vocabulary Material in Mandarin for Grade Three



Source: Author (2022)

3) Conversations in Mandarin

In this third material from third grade teaching materials, it discusses how to arrange words for communication which focuses more on conversations between friends, parents and teachers using Mandarin. The illustration of this teaching material is described as below:

Picture 12.

Conversations Material in Mandarin for Grade Three



Source: Author (2022)

4) Combine Words in Mandarin

In this fourth material from the third grade teaching materials discusses how to combine several words in Mandarin which are then learned how to pronounce and their meanings. This teaching material is described as follows:

Picture 13.

Combine Words Material in Mandarin for Grade Three



Source: Author (2022)

5) Singing in Mandarin



In this fifth material, third grade teaching materials discuss how to sing in Mandarin, namely a song entitled "The Ringing Bell and I Love My Little Animals". This teaching material is described as follows:

Picture 14.

Singing Material in Mandarin for Grade Three



Source: Author (2022)

6) Short Stories in Mandarin

In this sixth material, third grade teaching materials discuss how to read or write a short story, that is, frogs at the bottom of the lake can only see the big day at the head of the lake in Chinese. This teaching material is described as follows:

Picture 15.

Short Stories Material in Mandarin for Grade Three



Source: Author (2022)

Fourth Grade Digital Teaching Materials

The design of learning materials for Chinese students at the fourth grade level consists of several materials that must be learned such as: praying in Mandarin, Mandarin vocabulary, conversations in Mandarin, singing spiritual songs in Mandarin, singing songs in Mandarin and short stories in Chinese. Aside from being a learning material, the design of this teaching material was also prepared for Tabqha Christian SDS students who are more interested in learning Mandarin. The description of each of these fourth grade teaching materials is as follows:

1) Praying in Mandarin

In this first material from fourth grade teaching materials, it discusses how to pray in Mandarin which is even deeper with deeper meanings than the material at the previous level, that is, apart from praying, we also learn to pray so that the class will run smoothly. The teaching materials are described as below:

Picture 16.

Praying Material in Mandarin for Grade Four



Source: Author (2022)

2) Vocabulary in Mandarin

In the second material of the fourth grade teaching materials, it discusses vocabulary in Mandarin with various groups, namely holidays, body parts, sports and transportation. This section is a more in-depth discussion of vocabulary when compared to the Mandarin vocabulary in the previous grade level teaching materials. This teaching material is described as follows:

Picture 17.

Vocabulary Material in Mandarin for Grade Four



Source: Author (2022)

3) Conversations in Mandarin

This third material from fourth grade teaching materials discusses how to arrange words for communication which focuses more on conversations between students and teachers as well as conversations with friends using Mandarin. The illustration of this teaching material is described as below:

Picture 18.

Conversations Material in Mandarin for Grade Four



Source: Author (2022)

4) Singing in Mandarin

In this fourth material, fourth grade teaching materials discuss how to sing spiritual songs in Mandarin, namely "I Love Jesus" and "When We Are Together". The material for this teaching material is described as follows:

Picture 19.

Singing Material in Mandarin for Grade Four



Source: Author (2022)

5) Short Stories in Mandarin

This fifth material from fourth grade teaching materials discusses how to read or write short stories, namely Two-in-one and two intentions in Mandarin. This teaching material is described as follows:

Picture 20.

Short Stories Material in Mandarin for Grade Four



Source: Author (2022)

**Fifth Grade Digital Teaching Materials**

The design of learning materials for Chinese students at the fifth grade level consists of several materials that must be learned. Aside from being a learning material, the design of this teaching material was also prepared for Tabqha Christian SDS students who are more interested in learning Mandarin. The description of each of these first grade teaching materials is as follows:

1) Praying in Mandarin

This first material from fifth grade teaching materials discusses how to pray in Mandarin which is even deeper with deeper meanings than the material at the previous level, that is, apart from praying that class will run smoothly, we also pray that we can become children. good jesus, pray for family, relatives, friends protected by Jesus. The teaching materials are described as below:

Picture 21.

Praying Material in Mandarin for Grade Five



Source: Author (2022)

2) Vocabulary in Mandarin

The second material of fifth grade teaching material discusses vocabulary in Mandarin with various groups like big Indonesian cities, student equipment, drinks, food, fruit and vegetables. This teaching material is described as follows:

Picture 22.

Vocabulary Material in Mandarin for Grade Five



Source: Author (2022)

3) Conversations in Mandarin

This third material from fifth grade teaching materials discusses how to arrange words for communication which focuses more on conversations between friends using Mandarin with vocabulary or sentences that are more difficult than the previous level. The illustration of this teaching material is described as below:

Picture 23.

Conversation Material in Mandarin for Grade Five



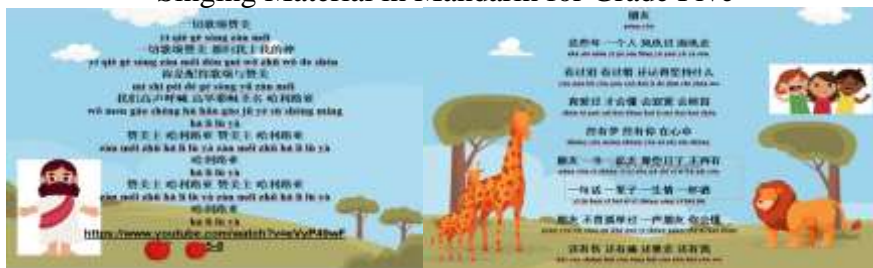
Source: Author (2022)

4) Singing in Mandarin

This fourth material from fifth grade teaching materials discusses how to sing spiritual songs in Mandarin, namely yī qiè gē sòng zàn měi and “Friend”. This teaching material is described as follows:

Picture 24.

Singing Material in Mandarin for Grade Five



Source: Author (2022)

5) Short Stories in Mandarin

In this fifth material, fifth grade teaching materials discuss how to read or write a short story, namely an old man who moved mountains in Mandarin. This teaching material is described as follows:

Picture 25.

Short Stories Material in Mandarin for Grade Five



Source: Author (2022)

**Sixth Grade Digital Teaching Materials**

The design of learning materials for Chinese students at the sixth grade level is the final design. Aside from being a learning material, the design of this teaching material was also prepared for Tabqha Christian SDS students who are more interested in learning Mandarin. The description of each of these sixth grade teaching materials is as follows:

1) Praying in Mandarin

This first material from sixth grade teaching materials discusses how to pray in Mandarin with deeper meanings like give us wisdom so that the material studied today can be useful in the future, hopefully can protect family, relatives, teachers and friends. The teaching materials are described as below:

Picture 26.

Praying Material in Mandarin for Grade Six



Source: Author (2022)

2) Vocabulary in Mandarin

In the second material, this sixth grade teaching material discusses vocabulary in Mandarin with various groups, namely nature, hobbies, malls and hospitals. This teaching material is described as follows:

Picture 27.

Vocabulary Material in Mandarin for Grade Seven



Source: Author (2022)

3) Conversations in Mandarin

This third material from the sixth grade teaching materials discusses how to arrange words for communication which focuses more on conversations between us and customers and patients. The illustration of this teaching material is described as below:

Picture 28.

Conversations Material in Mandarin for Grade Six



Source: Author (2022)

4) Singing in Mandarin

This fourth material from the sixth grade teaching materials discusses how to sing spiritual songs in Mandarin, namely "Jesus Was Very Good To Me" and "Tomorrow Will Be Better". This teaching material is described as follows:

Picture 29.

Singing Material in Mandarin for Grade Six



Source: Author (2022)

5) Short Stories in Mandarin

This fifth material from the sixth grade teaching materials discusses how to read or make a short story, namely the Kong Rong Story in Mandarin. This teaching material is described as follows:

Picture 30.

Short Stories Material in Mandarin for Grade Six



Source: Author (2022)

Conclusions

SDS Kristen Tabqha Batam as a private educational institution in Batam City has a problem in implementing one of the steps in its learning system, namely in terms of utilizing student learning modules that are still analog in nature such as textbooks or physical books. This problem was identified through observation and interview methods which then found a solution, namely by designing students'

digital learning materials for one of the subjects at the school, namely Mandarin which followed students' insights and knowledge during the learning process in lectures.

The implementation process carried out resulted in 6 (six) learning materials for students learning Mandarin. The results and outcomes achieved can help Tabqha Christian SDS, both teachers and students to get more and more interesting references in the learning process in their Mandarin language subjects, as well as help prepare a better learning process for the semester or next school year in Mandarin subject.

Through the practical work process that has been carried out to completion, the authors hope that Tabqha Christian SDS can continue to use digital learning teaching materials and other digital references so that teachers and students can continue to develop their knowledge and insights to keep up with the times and technology at this time. In addition, the authors also hope that Tabqha Christian SDS apart from the subject matter of teaching materials can also start creating and developing digital learning teaching materials for other subjects. Finally, in terms of output, the authors hope to develop digital learning modules for students in Mandarin lessons to complement all digital student learning materials in the future.

## References

- Budiman, A., Rifai, & Firmansyah. (2022). Perkembangan pendidikan Indonesia di masa pandemi Covid-19. *Jurnal Ilmiah Mandala Education*, 8(3), 2525–2530. <https://doi.org/http://dx.doi.org/10.36312/jime.v8i2.3127>
- Coleman, P. (2019). In-depth interviewing as a research method in healthcare practice and education: Value, limitations and considerations. *International Journal of Caring Sciences*, 12(3), 1879. <https://doi.org/10.5860/choice.51-2973>
- Hasanah, H. (2017). TEKNIK-TEKNIK OBSERVASI (Sebuah Alternatif Metode Pengumpulan Data Kualitatif Ilmu-ilmu Sosial). *At-Taqaddum*, 8(1), 21. <https://doi.org/10.21580/at.v8i1.1163>
- Mulyani, F., & Haliza, N. (2021). Analisis perkembangan ilmu pengetahuan dan teknologi (Iptek) dalam pendidikan. *Jurnal Pendidikan Dan Konseling (JPDK)*, 3(1), 101–109. <https://doi.org/10.31004/jpdk.v3i1.1432>
- Nafarin, I. A., & Hudaidah, H. (2021). Perkembangan pendidikan Indonesia di masa pandemi Covid-19. *Edukatif: Jurnal Ilmu Pendidikan*, 3(2), 456–462. <https://doi.org/10.31004/edukatif.v3i2.324>
- Tampubolon, D. H. (2021). Perkembangan inovasi pendidikan di Indonesia. *Seri Publikasi Pembelajaran*, 1(2), 1–4.
- Utomo, et al. (2022). Continuation Intention of E-Learning: New Model of Technology Adoption. 3rd International Conference on Big Data Analytics and Practices (IBDAP)
- Claudya, S. E., Cahyani, N., Togatorop, I. H., Tjahyadi, E. A., Andini, M., Marsevani, M., ... others. (2023). Peran Bawaslu dan Mahasiswa Universitas Internasional Batam dalam Membangun Sifat Partisipatif Pemilu kepada Pemilih Pemula SMA Negeri 24 Batam. National Conference for Community Service Project (NaCosPro), 5(1), 644–650.