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The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with *Kurikulum Merdeka*

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Abstract

This study formulated a model for differentiated instruction at a kindergarten and described the factors that promoted or inhibited its implementation. A qualitative case study design was employed. The data were gathered through interview, observation, and documentation. The study involved a kindergarten principal, two kindergarten teachers, and 15 kindergarten students from *TK Aisyiyah Bustanul Athfal* as the mover school that has been implementing *Kurikulum Merdeka* in Kendal Regency. Researchers as the key informant were assisted by an interview guideline, an observation guideline, and a documentation checklist. Data analysis was performed based on Miles and Huberman's interactive model. The data were validated through source and technique triangulation. Differentiated instruction was conducted using the center learning model, using demonstration, outing-class, and role-playing methods. Factors that facilitated the differentiated instruction implementation at the kindergarten included a supportive, safe, and comfortable learning environment, sufficient resources and materials, students' psychological conditions and preparedness for learning, and the active engagement of school communities inside and outside the school. Factors that promoted the process comprised the scarcity of learning resources, insufficient infrastructure, a shortage of qualified educators, and the psychological well-being of students during the learning process. The instructional media used for the instruction were loose parts and natural materials surrounding the children.

Keywords: differentiated instruction, Mover Kindergarten, *Kurikulum Merdeka*

INTRODUCTION

The research was motivated by the significant decline in learning outcomes and the need for effective learning strategies among Indonesian students following the outbreak of the Covid-19 pandemic. The closure of schools followed by the implementation of a limited face-to-face policy resulted in the most significant instances of learning loss in kindergarten and elementary school settings (A. Iskandar et al., 2022; Taimur et al., 2021). The World Bank recently published research findings that indicate a significant loss of study time, ranging from 0.9 to 1.2 years, as well as a decline in reading proficiency by 25-35 points based on the Programme for International Student Assessment (PISA) data. The phenomenon of learning loss has led to a significant

proportion of elementary school students in Indonesia, specifically 70%, exhibiting reading proficiency scores that fall below the established minimum proficiency level (Yarrow et al., 2020). Consequently, this accumulation will impede the attainment of educational goals at subsequent stages. In addition to the implementation of school closures and restrictions on in-person interactions, the primary factor contributing to this issue is the inefficacy of online distance learning.

The success of online distance learning in kindergarten and elementary education is contingent upon the active involvement and support of families and parents. Nevertheless, parents may not always possess the capacity to actively participate in their children's educational endeavors within the home setting (Cho & Ilari, 2021; Novianti & Garzia, 2020; Tabroni et al., 2022). Learning loss refers to a decline in academic knowledge and skills that is attributed to an extended period of remote learning (Donnelly & Patrinos, 2022; Engzell et al., 2021). The cessation of in-person instruction in educational institutions has led to a decline in students' cognitive knowledge, vocational aptitude, and social competencies (Hadie et al., 2021; Hu et al., 2021; Lin & Shek, 2021). The primary determinants encompass the provision of learning resources that entail a cost (Sadeghi, 2019), challenges in seeking guidance from instructors (Ye et al., 2021), interruptions in internet connectivity (Özüdoğru, 2021), and the absence of an established optimal approach to effectively manage online distance learning (Mishra et al., 2020). Educational institutions also encounter challenges associated with constraints in the provision of instructional resources (Cevikbas & Kaiser, 2020). There has been a reduction in the allocated hours for teaching and learning, resulting in inadequate conveyance of subject matter. Additionally, the teaching practicum material poses challenges for instructors. These factors exert a concurrent influence on students.

One possible approach for addressing the case mentioned above involves the reconstruction of the curriculum and learning models that prioritize meaningful and self-directed learning. Differentiated instruction is a pedagogical approach aimed at expediting the attainment of learning goals, thereby enabling educational institutions to mitigate the learning gaps exacerbated by the ongoing pandemic. The utilization of differentiated instruction is advocated due to its inherent benefits in promoting meaningful and student-centered educational experiences (Hasanah et al., 2022; Helmi et al., 2023). The distinguishing feature of the differentiated instructional model resides in its inherent attributes that afford students the ability to navigate their own educational trajectory. Differentiated instruction is an educational approach that highlights the overall well-being and safety of students, both physically and mentally, within the classroom setting (Hasanah et al., 2022).

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Extensive scholarly investigations have been undertaken to explore the concept of differentiated instruction, with particular emphasis on the examination of teacher knowledge, beliefs, and implementation, as well as their impacts on students (Stollman et al., 2019). The learning approach has been positively received by educators as it effectively identifies student needs by considering various factors such as learning readiness, interests, and learning styles (Hirza et al., 2022; Novita Sarie, 2022). The incorporation of differentiated instruction within the classroom setting has been found to yield numerous advantageous outcomes in terms of students' academic advancement and psychosocial growth (Olimov, 2020). At the kindergarten level, differentiated instruction is implemented by offering projects referred to as differentiated projects (DP). Employing DP with comprehensive intervention produced superior results compared to the alternative approach (Dijkstra et al., 2016). The teacher's cognitive comprehension of differentiated instruction significantly impacts its implementation in the classroom.

Numerous scholarly investigations conducted in Indonesia have examined the implementation of differentiated instruction within the *Merdeka* curriculum across different educational tiers. However, a dearth of scholarly inquiry pertaining to kindergarten settings has been observed. The literature search yielded studies examining the application of differentiated instruction in elementary schools, specifically utilizing inquiry models, to enhance students' numeracy skills (Rahmah et al., 2022) and mathematical proficiency (Aprima & Sari, 2022). Previous studies conducted in elementary schools have primarily focused on examining the existing body of literature pertaining to the concept of differentiated instruction. Research has been conducted at the junior high school level to investigate the implementation of differentiated instruction in Mathematics (Evedi et al., 2023), Religious Studies (Simbolon, 2022), and the Indonesian Language (D. Iskandar, 2021). However, other studies have primarily focused on learning styles as a factor to consider in differentiated instruction (Alhafiz, 2022). Research on differentiated instruction at the senior high school level remains constrained primarily to the domains of science (Manalu et al., 2023; Setiyo, 2022) and mathematics (Surat, 2019). Hence, this study will provide significant insights into the application of differentiated instruction in kindergarten, with a particular focus on the Mover Kindergarten where the *Merdeka* curriculum is being implemented. The primary findings of this study will contribute to the existing body of knowledge in this area.

METHOD

Research Design

The present study employed a qualitative descriptive approach in conducting case study

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research. Qualitative research utilizes and gathers diverse empirical materials, such as case studies, personal experiences, introspection, life stories, interviews, observations, historical records, interactional data, and visual texts. These sources provide descriptions of routine moments, meanings, and challenges in an individual's life (Aspers & Corte, 2019; Johnson et al., 2020; Williams, 2019). The aforementioned approach encompasses theological, normative, sociological, managerial, and pedagogic dimensions (Moschella & Willhauck, 2018). The present study focused on the normative theological approach employed by educators when teaching scientific disciplines, particularly in terms of the interplay between human beings and their Creator. The sociological approach was employed to examine the collaborative dynamic between the kindergarten principal or teachers and students, with the aim of fostering a favorable influence on students, specifically in terms of their overall well-being. The utilization of the managerial approach involved the assessment of differentiated instruction, along with the identification of its supporting factors and the development of problem-solving strategies for its implementation. The pedagogical approach encompassed the incorporation of differentiated instructional activities within the educational framework executed by the kindergarten principal and teachers.

Types and Sources of Data

This study involved two distinct categories of data: primary and secondary data. Primary data were gathered using observations, documentation, and in-depth interviews, facilitated by interview guidelines and tape recorders (Hammi, 2017). The employed method of observation was participant observation, wherein the researcher closely monitored and documented the activities of the research subjects (Ciesielska et al., 2017). Documentation in the form of videos or photographs of recorded interviews and observations was considered primary data, whereas secondary data were gathered from schools and other references consisting of documented school policy documents and learning tools. The data were collected from a school principal, two teachers, and fifteen students affiliated with *Aisyiyah Bustanul Athfal* Kindergarten.

Data Collection

The data were gathered via observation, interviews, and documentation. Observations were employed due to the manageable scale of data pertaining to human behavior, work processes, natural phenomena, and the observed respondents (Moser & Korstjens, 2018). During the observations, observers directed their attention towards various elements of learning such as

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planning, implementation, evaluation, supporting and inhibiting factors, and the contributions of the participating school towards the achievement of differentiated learning outcomes. The objective was to develop a comprehensive understanding of effective differentiated instructional strategies in early childhood education, with a specific focus on the integration of technology in the current global computing era. The principal was interviewed in relation to learning policies. Data on the various aspects of planning, implementation, evaluation, and the factors that either support or inhibit the implementation of differentiated instruction were collected through interviews conducted with both teachers and students. Documentation was conducted to verify the accuracy of the data obtained through observations and interviews. The analyzed documents included daily journals, attendance lists, supervision books, and official school documents such as the School Work Program, Curriculum, Annual Program, Semester Program, Teaching Modules, Assessments, and Reflection journals. In this study, the researchers assumed a pivotal role as the primary instrument so that their comprehension of research variables was vital (Clark & Vealé, 2018; Rogers, 2018).

Data Triangulation

The data were validated through technique and source triangulation. Source triangulation involved the comparison of data derived from a singular source with data obtained from multiple sources or collected through diverse methods and temporal contexts. The present study cross-validated the data collected through interviews conducted with the school principal, with the data obtained from interviews conducted with teachers and students. The technique triangulation employed in this study involved the systematic comparison of interview data, observational data, and documentation collected at various points in time. The data collected from interviews with informants, observations, and documents were synthesized, considering the reliability, dependability, and certainty factors.

Data Analysis

The study's data were analyzed using the interactive qualitative data analysis suggested by Miles dan Huberman, which consisted of data reduction, data display, conclusion drawing/verification (Aman Mezmir, 2020; Miles et al., 2013; Victoria Elliott, 2018).

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RESULTS AND DISCUSSION

The Planning of Differentiated Instruction

Differentiated instruction revolves around acknowledging and addressing the diverse learning needs exhibited by students. This phenomenon can be attributed to the fact that students are exposed to diverse environments (Bayumi, 2021). The implementation of differentiated instruction in the classroom is essential for addressing the diverse learning needs of students, encompassing their individual interests, levels of preparedness for learning, and preferred learning styles. The effective execution of differentiated instruction at the research location was impacted by the principal's role. To enhance educational standards at the kindergarten, the principal has implemented policies and programs that prioritize the well-being and success of students. These initiatives included the development of an adaptive curriculum and the implementation of programs aimed at fostering teacher creativity to increase the effectiveness of instruction and maximize learning outcomes. The kindergarten even held a training program, wherein proficient resource individuals were invited to aid teachers in enhancing their creativity and innovation in education.

The findings from the interview conducted with the principal indicated that the principal implemented policies pertaining to differentiated instruction with the aim of enhancing the overall quality of education and facilitating students in attaining their learning objectives. The implementation of differentiated instruction was anticipated to effectively support student well-being in the classroom, irrespective of the variations in their learning styles. The principal's role was oriented towards promoting student progress and the principal's policy was focused on the development of students in accordance with their individual learning styles. Through the principal's programs and policies, it was expected that the acquisition of knowledge could yield substantial advantages for students in the forthcoming years. We observed the active involvement of the internal and external community members. The school principal consistently engaged in the dissemination of school programs to student guardians, school committees, and foundation administrators. Therefore, the strategies implemented by the school principal garnered endorsement and favorable reactions from the neighboring community.

The results of the interviews with the school principal are consistent with what the chairman and vice chairman of the school committee communicated. According to them, the school's

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programs thus far have been extremely fascinating and creative. According to them, school programs have been able to support the development of student competencies, where students' accomplishments are aligned with their interests and abilities, and where learning is also aligned with students' readiness levels and learning styles. The school committee admitted that they never received negative responses or complaints from kindergarten parents regarding educational activities. This finding suggests that the school's curriculum can be accepted by all school members.

The Implementation of Differentiated Instruction

The study's findings revealed that teachers at Aisyiah Kindergarten played an active role as learning agents who could develop learning based on their students' learning interests, readiness, and learning styles. They were constantly committed to advancing learning for the benefit of their students. These teachers attempted to comprehend and acquire information about differentiated instruction through autonomous study on the *Merdeka Mengajar* Platform, collaboration with colleagues, and participation in learning workshops. They also tried to comprehend the principles of differentiated instruction that must be implemented in the classroom and continued to better these learning activities. In addition, the teachers maintained a commitment to implementing learning that is consistent with the needs of the times, which are always in the students' favor. They sought to provide students with the finest learning opportunities in order to maximize their learning outcomes.

In the execution of differentiated instruction, the teachers conducted engaging, diverse, and stimulating learning activities. In this particular scenario, the educational institution offered students the chance to engage in learning activities with increased levels of participation. The instructional content was disseminated through suitable pedagogical approaches, facilitating enhanced comprehension among students. The teachers could successfully establish a conducive learning environment by cultivating students' interpersonal connections and active participation in various learning activities. The teachers also fostered a culture of peer tutoring among students, thereby promoting mutual motivation. The teachers employed instructional strategies involving various forms of media to enhance the cultivation of students' abilities, inclinations, preparedness for learning, and learning styles. The teachers were also capable of inspiring students through the use of trigger sentences. The findings of this study revealed

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that educators at Aisyiah Kindergarten demonstrated a proactive approach in carrying out assessments of learning, thereby enabling them to enhance future learning endeavors.

At the designated research site, educators have successfully incorporated optimal elements of differentiated instruction, including the establishment of positive environmental conditions that effectively foster students' engagement in the learning process and facilitate the cultivation of their competencies. The establishment of a collaborative and conducive learning environment is essential in fostering students' intrinsic motivation to acquire knowledge, thereby facilitating their holistic personal growth and development. The positive learning environment is conducive to the fulfillment of students' prosperity and inner and outer happiness. The findings derived from our observations indicated that engaging learning activities could stimulate students intellectually. Figure 1 illustrates outside-class activities aimed at familiarizing students with indigenous flora, including ginger, *kencur* (aromatic ginger), and *lempuyang* (*Zingiber aromaticum*).



Figure 1. Outing class activities introducing students to indigenous flora

Differentiated instruction refers to the instructional approach employed by educators to cater to the diverse needs of students. Teachers, acting as facilitators of learning, utilize various strategies to assess and accommodate students' individual abilities, taking into account their interests, learning preparedness, and preferred learning styles. Teachers at the research site implemented differentiated instruction utilizing the central model, which involved the use of demonstration methods, out-of-class experiences, and role playing. When implementing differentiated instruction, the teachers created an optimal learning environment that could

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foster a sense of safety and comfort among students. Differentiated instruction was also implemented through the integration of holistic-integrative activities, which aimed to provide children with a deep understanding (*Haqul Yakin*) or hands-on experiences.

Differentiated instruction is anticipated to afford students the opportunity to enhance their potential in accordance with their individual levels of preparedness, areas of interest, and study profiles (Gheysens et al., 2022). Considering student learning profiles, such as learning styles, has been acknowledged as a proactive approach to address potential learning challenges (Erviana et al., 2017; Maryani, Fatmawati, et al., 2018; Maryani, Husna, et al., 2018). Research indicates that students who receive differentiated instruction exhibit superior learning outcomes compared to students in the conventional teaching method group (O. A. Awofala & O. Lawani, 2020). In conjunction with learning outcomes, differentiated instruction yields other positive effects, including heightened motivation, enhanced student-teacher rapport, and the reduction of the student achievement disparity (Ginja & Chen, 2020).

Factors Promoting and Inhibiting Differentiated Instruction

We found several factors that supported the implementation of differentiated instruction in Aisyiyah Kindergarten. These factors included the establishment of a secure, comfortable, and conducive learning environment for students, the availability of adequate instructional resources, the consideration of students' psychological conditions and readiness for learning, and the active involvement of the school community both within and outside the educational institution. The involvement of community members significantly contributed to the successful implementation of differentiated instruction at the kindergarten. The level of community engagement with the school's activity programs significantly influenced the educational experience and outcomes within the school environment. The impediments to the successful implementation of differentiated instruction primarily stemmed from constraints related to learning resources, insufficient infrastructure, a shortage of teaching personnel, and the psychological state of students during the learning process. At Aisyiyah Kindergarten, the instructional media employed for differentiated instruction included loose parts and natural resources found in the immediate environment surrounding the students. The findings from the interviews conducted with teachers at the research site are presented in Figure 2.

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been implemented thus far. Furthermore, the educational institution consistently communicated with stakeholders and other school communities.

The implementation of differentiated instruction is hindered by various challenges, including the substantial teaching workload faced by educators, the size of the class, and the allocation of teaching time (Al-Shaboul et al., 2021). Furthermore, a significant challenge is presented by the wide range of teacher philosophies and practices that must be navigated in order to effectively tailor instruction to students' individual interests, levels of preparedness, and unique learning profiles (Butova et al., 2019). The primary obstacle lies in the way educators can effectively evaluate their students in order to inform and shape their instructional practices. There are several factors that contribute to the suboptimal implementation of differentiated instruction. One such factor is the insufficient frequency of implementing this approach, which falls below the recommended level necessary to effectively address the heterogeneity of students (Moon, Callahan, Tomlinson, et al., 2002) and teachers' various competencies in dealing with the challenges (Pozas et al., 2020). The primary obstacles associated with differentiated instruction also encompass insufficient teacher proficiency, limited time to manage heavy workloads, and inadequate time for evaluating student learning (Shareefa, 2020). The challenges encountered by educators in various research locations may exhibit variations. This research has not extensively examined the endeavors undertaken by other schools to address the challenges associated with the implementation of differentiated instruction.

CONCLUSION

The results of the current study showed that the application of differentiated instruction at Aisyiyah kindergarten was conducted through a holistic-integrative approach, thereby enabling children to engage in meaningful and hands-on experiences. At the designated research site, differentiated instruction was carried out using the center learning model, which involved the utilization of demonstration techniques, outing classes, and role-playing exercises. Various factors contributed to the successful implementation of differentiated instruction. These factors encompassed the provision of a conducive environment that might foster a sense of security and comfort among students, the availability of appropriate instructional media, the consideration of students' psychological well-being, their readiness to engage in learning, and the involvement of the broader community both within and outside the school. The

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implementation of differentiated instruction was hindered by various factors, including limited availability of learning resources, inadequate infrastructure, insufficient teaching personnel, and the psychological state of students during the learning process.

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**Bukti Acknowledgment submit artikel
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Intan Puspitasari <jecce@pgpauad.uad.ac.id>
to me

Thu, Aug 3, 2023

Ika Maryani:

Thank you for submitting the manuscript, "The Formulation of a Model for Differentiated Instruction at the Mover Kinder Merdeka" to Journal of Early Childhood Care and Education . With the online journal management system that we are track its progress through the editorial process by logging in to the journal web site:

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If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

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**Participants**

Ika Maryani (ikamaryani)

Mohammad Fauziddin (mfauziddin)

**Bukti kelayakan untuk direview
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<p>Salam, Berkaitan dengan artikel yang author submit pada JECCE, berikut ini informasi yang dapat kami sampaikan.</p> <p>Ketentuan publikasi Journal of Early Childhood Care and Education (SINTA 3) website http://journal2.uad.ac.id/index.php/jecce sebagai berikut:</p> <p>Sesuaikan template dan download : https://s.id/1RcE3</p> <p>Biaya :</p> <ol style="list-style-type: none">1. Penulis pertama/corresponding author luar PG PAUD UAD = Rp. 750.0002. Penulis pertama/corresponding author dosen dan atau mahasiswa PG PAUD UAD= Rp 0.003. Penulis kedua/seterusnya tapi bukan corresponding author dari dosen dan atau mahasiswa PG PAUD UAD = Rp 500.000 <p>Durasi waktu submit sampai publish 6 bulan. Artikel melalui proses review oleh minimal 2 orang reviewer dan revisi oleh author setelah lolos pemeriksaan kemiripan nasiah (similarity check). Artikel yang telah memenuhi kriteria akan mendapatkan LoA (Letter of Acceptance) melalui email dan yang belum memenuhi akan diminta revisi sampai terpenuhi kriteria minimal masuk dapur produksi.</p> <p>* Biaya di bayarkan diawal sebelum artikel diproses (dimaksudkan sebagai pengikat agar penulis serius dalam mengikuti proses review)</p> <p>BRI JECCE atas nama Intan Puspitasari Nomor Rekening 3008-01-031196-53-0</p> <p>#PENTING Upload Bukti pembayaran https://s.id/1RcHD</p> <p>* Jika artikel ditolak (decline) atas rekomendasi reviewer dan editor maka biaya akan dikembalikan</p> <p>* Waktu yang diberikan untuk revisi maksimal 2 Minggu</p> <p>* Artikel yang decline karena melampaui batas akhir dan revisi belum dilakukan maka biaya tidak dikembalikan</p> <p>* Pastikan notifikasi email aktif di handphone karena semua aktifitas perjalanan artikel melalui Email</p> <p>*Periksa Spam pada email anda karena biasanya email dari kami masuk ke SPAM</p> <p>* Deadline keputusan dilanjutkan atau tidak adalah 7 (tujuh) hari sejak pemberitahuan ini dikirimkan.</p> <p>*Jika dalam waktu 7 hari sejak pemberitahuan ini dikirimkan tidak ada respon, maka artikel akan di Reject</p> <p>Best Regard</p>	<p>mfauziddin 2023-08-04 01:25 AM</p>



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Round 1 Status

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[JECCE] New notification from Journal of Early Childhood Care and Education

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Mohammad Fauziddin <mfauziddin@gmail.com>
to me

Fri, Aug 4, 8:

You have a new notification from Journal of Early Childhood Care and Education :

You have been added to a discussion titled "[JECCE] Kelayakan Artikel untuk Diproses Review" regarding the submiss Model for Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka".

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Participants

Ika Maryani (ikamaryani)

Mohammad Fauziddin (mfauziddin)

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From

Ika Maryani, Ristiyati Ristiyati:

mfauziddin

2023-08-08 12:02

We have reached a decision regarding your submission to Journal of Early Childhood Care and Education , "The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka".

PM

Our decision is: Revisions Required

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**Participants**

Ika Maryani (ikamaryani)

Mohammad Fauziddin (mfauziddin)

Messages

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From

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mfauziddin

2023-08-08 12:02

We have reached a decision regarding your submission to Journal of Early Childhood Care and Education , "The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka".

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Mohammad Fauziddin

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Mohammad Fauziddin <mfauziddin@gmail.com>
to me, Ristiyati

Tue, Aug 8, 7:

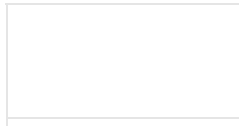
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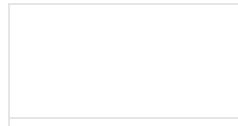
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The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with *Kurikulum Merdeka*

Article History

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Abstract

This study formulated a model for differentiated instruction at a kindergarten and described the factors that promoted or inhibited its implementation. A qualitative case study design was employed. The data were gathered through interview, observation, and documentation. The study involved a kindergarten principal, two kindergarten teachers, and 15 kindergarten students from *TK Aisyiyah Bustanul Athfal* as the mover school that has been implementing *Kurikulum Merdeka* in Kendal Regency. Researchers as the key informant were assisted by an interview guideline, an observation guideline, and a documentation checklist. Data analysis was performed based on Miles and Huberman's interactive model. The data were validated through source and technique triangulation. Differentiated instruction was conducted using the center learning model, using demonstration, outing-class, and role-playing methods. Factors that facilitated the differentiated instruction implementation at the kindergarten included a supportive, safe, and comfortable learning environment, sufficient resources and materials, students' psychological conditions and preparedness for learning, and the active engagement of school communities inside and outside the school. Factors that promoted the process comprised the scarcity of learning resources, insufficient infrastructure, a shortage of qualified educators, and the psychological well-being of students during the learning process. The instructional media used for the instruction were loose parts and natural materials surrounding the children.

Keywords: differentiated instruction, Mover Kindergarten, *Kurikulum Merdeka*

INTRODUCTION

The research was motivated by the significant decline in learning outcomes and the need for effective learning strategies among Indonesian students following the outbreak of the Covid-19 pandemic. The closure of schools followed by the implementation of a limited face-to-face policy resulted in the most significant instances of learning loss in kindergarten and elementary school settings (A. Iskandar et al., 2022; Taimur et al., 2021). The World Bank recently published research findings that indicate a significant loss of study time, ranging from 0.9 to 1.2 years, as well as a decline in reading proficiency by 25-35 points based on the Programme for International Student Assessment (PISA) data. The phenomenon of learning loss has led to a significant

Commented [SP1]: The title "The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka" is clear but could be more concise. A suggested revision is: "Differentiated Instruction in Mover Kindergarten: A Model Implementation with Kurikulum Merdeka." The study's content provides an informative overview of the research design and findings, but an enhanced focus on the specificities of "Kurikulum Merdeka" within the differentiated instruction context could enrich the reader's understanding.

Commented [SP2]: The abstract, "The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka," provides a comprehensive overview of the methodology and findings of the research. However, it could benefit from further clarification in certain areas. Specifically, the abstract might more clearly delineate the key successes and challenges of implementing differentiated instruction, rather than listing them. The language could also be streamlined for greater conciseness and focus. It would be beneficial to include a brief statement of the principal conclusions or implications of the study, thereby connecting the details provided to a broader educational context. The abstract could also mention how this research contributes to the existing literature or why this particular approach to differentiated instruction is significant. Overall, the abstract is informative but could be refined for greater clarity and impact.

Commented [SP3]: The introduction presented delineates the context of the significant decline in learning outcomes among Indonesian students during the Covid-19 pandemic and outlines the potential of differentiated instruction. While it thoroughly establishes the problem and frames the investigation within the current literature, there is room for improvement. The section might benefit from a clearer articulation of the specific research gap, particularly in kindergarten settings. While the breadth of background information is comprehensive, the introduction could become more engaging and precise by focusing on key literature that directly pertains to the research questions or hypotheses of this particular study. Streamlining the introduction with a concise thesis statement will enhance clarity and guide the reader's understanding of the primary focus of the research.

proportion of elementary school students in Indonesia, specifically 70%, exhibiting reading proficiency scores that fall below the established minimum proficiency level (Yarrow et al., 2020). Consequently, this accumulation will impede the attainment of educational goals at subsequent stages. In addition to the implementation of school closures and restrictions on in-person interactions, the primary factor contributing to this issue is the inefficacy of online distance learning.

The success of online distance learning in kindergarten and elementary education is contingent upon the active involvement and support of families and parents. Nevertheless, parents may not always possess the capacity to actively participate in their children's educational endeavors within the home setting (Cho & Ilari, 2021; Novianti & Garzia, 2020; Tabroni et al., 2022). Learning loss refers to a decline in academic knowledge and skills that is attributed to an extended period of remote learning (Donnelly & Patrinos, 2022; Engzell et al., 2021). The cessation of in-person instruction in educational institutions has led to a decline in students' cognitive knowledge, vocational aptitude, and social competencies (Hadie et al., 2021; Hu et al., 2021; Lin & Shek, 2021). The primary determinants encompass the provision of learning resources that entail a cost (Sadeghi, 2019), challenges in seeking guidance from instructors (Ye et al., 2021), interruptions in internet connectivity (Özüdoğru, 2021), and the absence of an established optimal approach to effectively manage online distance learning (Mishra et al., 2020). Educational institutions also encounter challenges associated with constraints in the provision of instructional resources (Cevikbas & Kaiser, 2020). There has been a reduction in the allocated hours for teaching and learning, resulting in inadequate conveyance of subject matter. Additionally, the teaching practicum material poses challenges for instructors. These factors exert a concurrent influence on students.

One possible approach for addressing the case mentioned above involves the reconstruction of the curriculum and learning models that prioritize meaningful and self-directed learning. Differentiated instruction is a pedagogical approach aimed at expediting the attainment of learning goals, thereby enabling educational institutions to mitigate the learning gaps exacerbated by the ongoing pandemic. The utilization of differentiated instruction is advocated due to its inherent benefits in promoting meaningful and student-centered educational experiences (Hasanah et al., 2022; Helmi et al., 2023). The distinguishing feature of the differentiated instructional model resides in its inherent attributes that afford students the ability to navigate their own educational trajectory. Differentiated instruction is an educational approach that highlights the overall well-being and safety of students, both physically and mentally, within the classroom setting (Hasanah et al., 2022).

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Extensive scholarly investigations have been undertaken to explore the concept of differentiated instruction, with particular emphasis on the examination of teacher knowledge, beliefs, and implementation, as well as their impacts on students (Stollman et al., 2019). The learning approach has been positively received by educators as it effectively identifies student needs by considering various factors such as learning readiness, interests, and learning styles (Hirza et al., 2022; Novita Sarie, 2022). The incorporation of differentiated instruction within the classroom setting has been found to yield numerous advantageous outcomes in terms of students' academic advancement and psychosocial growth (Olimov, 2020). At the kindergarten level, differentiated instruction is implemented by offering projects referred to as differentiated projects (DP). Employing DP with comprehensive intervention produced superior results compared to the alternative approach (Dijkstra et al., 2016). The teacher's cognitive comprehension of differentiated instruction significantly impacts its implementation in the classroom.

Numerous scholarly investigations conducted in Indonesia have examined the implementation of differentiated instruction within the *Merdeka* curriculum across different educational tiers. However, a dearth of scholarly inquiry pertaining to kindergarten settings has been observed. The literature search yielded studies examining the application of differentiated instruction in elementary schools, specifically utilizing inquiry models, to enhance students' numeracy skills (Rahmah et al., 2022) and mathematical proficiency (Aprima & Sari, 2022). Previous studies conducted in elementary schools have primarily focused on examining the existing body of literature pertaining to the concept of differentiated instruction. Research has been conducted at the junior high school level to investigate the implementation of differentiated instruction in Mathematics (Evendi et al., 2023), Religious Studies (Simbolon, 2022), and the Indonesian Language (D. Iskandar, 2021). However, other studies have primarily focused on learning styles as a factor to consider in differentiated instruction (Alhafiz, 2022). Research on differentiated instruction at the senior high school level remains constrained primarily to the domains of science (Manalu et al., 2023; Setiyo, 2022) and mathematics (Surat, 2019). Hence, this study will provide significant insights into the application of differentiated instruction in kindergarten, with a particular focus on the Mover Kindergarten where the *Merdeka* curriculum is being implemented. The primary findings of this study will contribute to the existing body of knowledge in this area.

METHOD

Research Design

The present study employed a qualitative descriptive approach in conducting case study

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Commented [SP4]: The methodology section is comprehensive but could benefit from further clarification. Specific details about the sampling methodology and ethical considerations are missing. Additionally, clearer explanations on the operationalization of various dimensions, participant selection criteria, and validation procedures are needed. These refinements could enhance transparency and reproducibility, contributing to the study's credibility and applicability.

research. Qualitative research utilizes and gathers diverse empirical materials, such as case studies, personal experiences, introspection, life stories, interviews, observations, historical records, interactional data, and visual texts. These sources provide descriptions of routine moments, meanings, and challenges in an individual's life (Aspers & Corte, 2019; Johnson et al., 2020; Williams, 2019). The aforementioned approach encompasses theological, normative, sociological, managerial, and pedagogic dimensions (Moschella & Willhauck, 2018). The present study focused on the normative theological approach employed by educators when teaching scientific disciplines, particularly in terms of the interplay between human beings and their Creator. The sociological approach was employed to examine the collaborative dynamic between the kindergarten principal or teachers and students, with the aim of fostering a favorable influence on students, specifically in terms of their overall well-being. The utilization of the managerial approach involved the assessment of differentiated instruction, along with the identification of its supporting factors and the development of problem-solving strategies for its implementation. The pedagogical approach encompassed the incorporation of differentiated instructional activities within the educational framework executed by the kindergarten principal and teachers.

Types and Sources of Data

This study involved two distinct categories of data: primary and secondary data. Primary data were gathered using observations, documentation, and in-depth interviews, facilitated by interview guidelines and tape recorders (Hammi, 2017). The employed method of observation was participant observation, wherein the researcher closely monitored and documented the activities of the research subjects (Ciesielska et al., 2017). Documentation in the form of videos or photographs of recorded interviews and observations was considered primary data, whereas secondary data were gathered from schools and other references consisting of documented school policy documents and learning tools. The data were collected from a school principal, two teachers, and fifteen students affiliated with *Aisyiyah Bustanul Athfal* Kindergarten.

Data Collection

The data were gathered via observation, interviews, and documentation. Observations were employed due to the manageable scale of data pertaining to human behavior, work processes, natural phenomena, and the observed respondents (Moser & Korstjens, 2018). During the observations, observers directed their attention towards various elements of learning such as

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planning, implementation, evaluation, supporting and inhibiting factors, and the contributions of the participating school towards the achievement of differentiated learning outcomes. The objective was to develop a comprehensive understanding of effective differentiated instructional strategies in early childhood education, with a specific focus on the integration of technology in the current global computing era. The principal was interviewed in relation to learning policies. Data on the various aspects of planning, implementation, evaluation, and the factors that either support or inhibit the implementation of differentiated instruction were collected through interviews conducted with both teachers and students. Documentation was conducted to verify the accuracy of the data obtained through observations and interviews. The analyzed documents included daily journals, attendance lists, supervision books, and official school documents such as the School Work Program, Curriculum, Annual Program, Semester Program, Teaching Modules, Assessments, and Reflection journals. In this study, the researchers assumed a pivotal role as the primary instrument so that their comprehension of research variables was vital (Clark & Vealé, 2018; Rogers, 2018).

Data Triangulation

The data were validated through technique and source triangulation. Source triangulation involved the comparison of data derived from a singular source with data obtained from multiple sources or collected through diverse methods and temporal contexts. The present study cross-validated the data collected through interviews conducted with the school principal, with the data obtained from interviews conducted with teachers and students. The technique triangulation employed in this study involved the systematic comparison of interview data, observational data, and documentation collected at various points in time. The data collected from interviews with informants, observations, and documents were synthesized, considering the reliability, dependability, and certainty factors.

Data Analysis

The study's data were analyzed using the interactive qualitative data analysis suggested by Miles dan Huberman, which consisted of data reduction, data display, conclusion drawing/verification (Aman Mezmir, 2020; Miles et al., 2013; Victoria Elliott, 2018).

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RESULTS AND DISCUSSION

The Planning of Differentiated Instruction

Differentiated instruction revolves around acknowledging and addressing the diverse learning needs exhibited by students. This phenomenon can be attributed to the fact that students are exposed to diverse environments (Bayumi, 2021). The implementation of differentiated instruction in the classroom is essential for addressing the diverse learning needs of students, encompassing their individual interests, levels of preparedness for learning, and preferred learning styles. The effective execution of differentiated instruction at the research location was impacted by the principal's role. To enhance educational standards at the kindergarten, the principal has implemented policies and programs that prioritize the well-being and success of students. These initiatives included the development of an adaptive curriculum and the implementation of programs aimed at fostering teacher creativity to increase the effectiveness of instruction and maximize learning outcomes. The kindergarten even held a training program, wherein proficient resource individuals were invited to aid teachers in enhancing their creativity and innovation in education.

The findings from the interview conducted with the principal indicated that the principal implemented policies pertaining to differentiated instruction with the aim of enhancing the overall quality of education and facilitating students in attaining their learning objectives. The implementation of differentiated instruction was anticipated to effectively support student well-being in the classroom, irrespective of the variations in their learning styles. The principal's role was oriented towards promoting student progress and the principal's policy was focused on the development of students in accordance with their individual learning styles. Through the principal's programs and policies, it was expected that the acquisition of knowledge could yield substantial advantages for students in the forthcoming years. We observed the active involvement of the internal and external community members. The school principal consistently engaged in the dissemination of school programs to student guardians, school committees, and foundation administrators. Therefore, the strategies implemented by the school principal garnered endorsement and favorable reactions from the neighboring community.

The results of the interviews with the school principal are consistent with what the chairman and vice chairman of the school committee communicated. According to them, the school's

Commented [SP5]: The "Results and Discussion" section of the article presents a comprehensive and detailed exploration of the implementation and impact of differentiated instruction in a kindergarten setting. However, there are areas where improvements can be made. Firstly, the section might benefit from a more concise synthesis of key findings, as the current elaboration may be overwhelming for readers, potentially diluting the primary takeaways. Secondly, while the article provides a deep understanding of the different aspects of differentiated instruction and associated factors, it lacks a critical analysis of any possible shortcomings in the research methodology or conflicting evidence from the field. Including such critical perspectives would add depth and rigor to the analysis. Lastly, the section would gain from clearer demarcation or subheadings to guide readers through the multi-faceted discussions, facilitating a more systematic understanding of the content. Adding visual aids, such as charts or graphs, to represent key findings might further enhance readability and comprehension. Overall, while the section is informative, it could be enhanced by focusing on conciseness, critical analysis, and improved structuring.

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programs thus far have been extremely fascinating and creative. According to them, school programs have been able to support the development of student competencies, where students' accomplishments are aligned with their interests and abilities, and where learning is also aligned with students' readiness levels and learning styles. The school committee admitted that they never received negative responses or complaints from kindergarten parents regarding educational activities. This finding suggests that the school's curriculum can be accepted by all school members.

The Implementation of Differentiated Instruction

The study's findings revealed that teachers at Aisyiah Kindergarten played an active role as learning agents who could develop learning based on their students' learning interests, readiness, and learning styles. They were constantly committed to advancing learning for the benefit of their students. These teachers attempted to comprehend and acquire information about differentiated instruction through autonomous study on the *Merdeka Mengajar* Platform, collaboration with colleagues, and participation in learning workshops. They also tried to comprehend the principles of differentiated instruction that must be implemented in the classroom and continued to better these learning activities. In addition, the teachers maintained a commitment to implementing learning that is consistent with the needs of the times, which are always in the students' favor. They sought to provide students with the finest learning opportunities in order to maximize their learning outcomes.

In the execution of differentiated instruction, the teachers conducted engaging, diverse, and stimulating learning activities. In this particular scenario, the educational institution offered students the chance to engage in learning activities with increased levels of participation. The instructional content was disseminated through suitable pedagogical approaches, facilitating enhanced comprehension among students. The teachers could successfully establish a conducive learning environment by cultivating students' interpersonal connections and active participation in various learning activities. The teachers also fostered a culture of peer tutoring among students, thereby promoting mutual motivation. The teachers employed instructional strategies involving various forms of media to enhance the cultivation of students' abilities, inclinations, preparedness for learning, and learning styles. The teachers were also capable of inspiring students through the use of trigger sentences. The findings of this study revealed

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that educators at Aisyiah Kindergarten demonstrated a proactive approach in carrying out assessments of learning, thereby enabling them to enhance future learning endeavors.

At the designated research site, educators have successfully incorporated optimal elements of differentiated instruction, including the establishment of positive environmental conditions that effectively foster students' engagement in the learning process and facilitate the cultivation of their competencies. The establishment of a collaborative and conducive learning environment is essential in fostering students' intrinsic motivation to acquire knowledge, thereby facilitating their holistic personal growth and development. The positive learning environment is conducive to the fulfillment of students' prosperity and inner and outer happiness. The findings derived from our observations indicated that engaging learning activities could stimulate students intellectually. Figure 1 illustrates outside-class activities aimed at familiarizing students with indigenous flora, including ginger, *kencur* (aromatic ginger), and *lempuyang* (*Zingiber aromaticum*).



Figure 1. Outing class activities introducing students to indigenous flora

Differentiated instruction refers to the instructional approach employed by educators to cater to the diverse needs of students. Teachers, acting as facilitators of learning, utilize various strategies to assess and accommodate students' individual abilities, taking into account their interests, learning preparedness, and preferred learning styles. Teachers at the research site implemented differentiated instruction utilizing the central model, which involved the use of demonstration methods, out-of-class experiences, and role playing. When implementing differentiated instruction, the teachers created an optimal learning environment that could

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foster a sense of safety and comfort among students. Differentiated instruction was also implemented through the integration of holistic-integrative activities, which aimed to provide children with a deep understanding (*Haqul Yakin*) or hands-on experiences.

Differentiated instruction is anticipated to afford students the opportunity to enhance their potential in accordance with their individual levels of preparedness, areas of interest, and study profiles (Gheysens et al., 2022). Considering student learning profiles, such as learning styles, has been acknowledged as a proactive approach to address potential learning challenges (Erviana et al., 2017; Maryani, Fatmawati, et al., 2018; Maryani, Husna, et al., 2018). Research indicates that students who receive differentiated instruction exhibit superior learning outcomes compared to students in the conventional teaching method group (O. A. Awofala & O. Lawani, 2020). In conjunction with learning outcomes, differentiated instruction yields other positive effects, including heightened motivation, enhanced student-teacher rapport, and the reduction of the student achievement disparity (Ginja & Chen, 2020).

Factors Promoting and Inhibiting Differentiated Instruction

We found several factors that supported the implementation of differentiated instruction in Aisyiyah Kindergarten. These factors included the establishment of a secure, comfortable, and conducive learning environment for students, the availability of adequate instructional resources, the consideration of students' psychological conditions and readiness for learning, and the active involvement of the school community both within and outside the educational institution. The involvement of community members significantly contributed to the successful implementation of differentiated instruction at the kindergarten. The level of community engagement with the school's activity programs significantly influenced the educational experience and outcomes within the school environment. The impediments to the successful implementation of differentiated instruction primarily stemmed from constraints related to learning resources, insufficient infrastructure, a shortage of teaching personnel, and the psychological state of students during the learning process. At Aisyiyah Kindergarten, the instructional media employed for differentiated instruction included loose parts and natural resources found in the immediate environment surrounding the students. The findings from the interviews conducted with teachers at the research site are presented in Figure 2.

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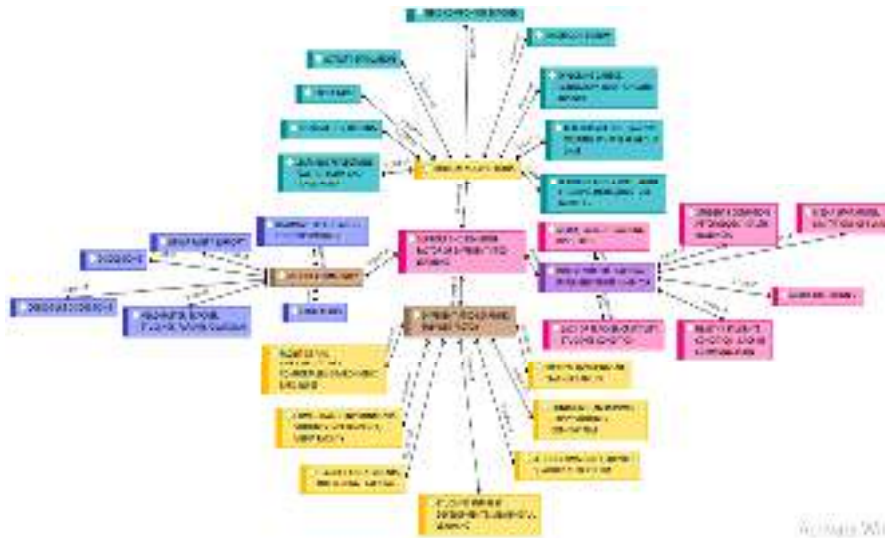


Figure 2. The Results of Teacher Interviews

The successful implementation of differentiated instruction at the research location was impeded by various factors, which can be addressed by taking into account the specific circumstances and needs of the students. To address the challenges associated with learning assessment, the educators at the educational institution took the initiative to jot down brief observations during the instructional session. To address the challenges posed by students with unfavorable psychological states, such as restlessness, illness, fatigue, and anger, the teachers offered motivational support within the classroom setting. This approach aimed to ensure that the academic progress of unaffected students remained uninterrupted despite the presence of peers experiencing psychological distress. The teachers at the kindergarten consistently made sure that students maintained their enthusiasm during educational endeavors. The teachers also attempted to establish a sense of stability within the educational setting in order to maintain an environment that is conducive to the seamless execution of learning assessments. The successful implementation of differentiated instruction, encompassing all stages from initiation to assessment, was contingent upon effective communication and collaboration with all school members. This endeavor was undertaken to collaboratively assess the effectiveness of the differentiated instruction programs that had

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been implemented thus far. Furthermore, the educational institution consistently communicated with stakeholders and other school communities.

The implementation of differentiated instruction is hindered by various challenges, including the substantial teaching workload faced by educators, the size of the class, and the allocation of teaching time (Al-Shaboul et al., 2021). Furthermore, a significant challenge is presented by the wide range of teacher philosophies and practices that must be navigated in order to effectively tailor instruction to students' individual interests, levels of preparedness, and unique learning profiles (Butova et al., 2019). The primary obstacle lies in the way educators can effectively evaluate their students in order to inform and shape their instructional practices. There are several factors that contribute to the suboptimal implementation of differentiated instruction. One such factor is the insufficient frequency of implementing this approach, which falls below the recommended level necessary to effectively address the heterogeneity of students (Moon, Callahan, Tomlinson, et al., 2002) and teachers' various competencies in dealing with the challenges (Pozas et al., 2020). The primary obstacles associated with differentiated instruction also encompass insufficient teacher proficiency, limited time to manage heavy workloads, and inadequate time for evaluating student learning (Shareefa, 2020). The challenges encountered by educators in various research locations may exhibit variations. This research has not extensively examined the endeavors undertaken by other schools to address the challenges associated with the implementation of differentiated instruction.

CONCLUSION

The results of the current study showed that the application of differentiated instruction at Aisyiyah kindergarten was conducted through a holistic-integrative approach, thereby enabling children to engage in meaningful and hands-on experiences. At the designated research site, differentiated instruction was carried out using the center learning model, which involved the utilization of demonstration techniques, outing classes, and role-playing exercises. Various factors contributed to the successful implementation of differentiated instruction. These factors encompassed the provision of a conducive environment that might foster a sense of security and comfort among students, the availability of appropriate instructional media, the consideration of students' psychological well-being, their readiness to engage in learning, and the involvement of the broader community both within and outside the school. The

Commented [SP6]: The conclusion of the study succinctly encapsulates the key findings and challenges associated with implementing differentiated instruction at Aisyiyah kindergarten. While it effectively covers the techniques used and contributing factors, it could benefit from a more concise articulation of the challenges faced. The hindering factors are listed but lack a detailed explanation or connection to potential solutions. It may be more beneficial to integrate a brief discussion of the implications of these hindering factors and propose concrete recommendations for overcoming these challenges in future implementations. Integrating these elements would provide a more actionable and reflective conclusion, aligning it more closely with the research's overall aims and contributing to the field of Education.

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implementation of differentiated instruction was hindered by various factors, including limited availability of learning resources, inadequate infrastructure, insufficient teaching personnel, and the psychological state of students during the learning process.

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Differentiated Instruction in Mover Kindergarten: A Model Implementation with Kurikulum Merdeka



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Abstract

This study formulated a model for differentiated instruction at a kindergarten and described the factors that promoted or inhibited its implementation. A qualitative case study design was employed. The data were gathered through interview, observation, and documentation. The study involved a kindergarten principal, two kindergarten teachers, and 15 students from *Aisyiyah Bustanul Athfal* kindergarten as the mover school. Researchers were assisted by an interview guideline, an observation guideline, and documentations. Data analysis was performed based on Miles and Huberman's interactive model. The data were validated through source and technique triangulation. Differentiated instruction was conducted using the center learning model, using demonstration, outing-class, and role-playing methods. Factors that facilitated the differentiated instruction implementation at the kindergarten included a supportive, safe, and comfortable learning environment, sufficient resources and materials, students' psychological conditions and preparedness for learning, and the active engagement of school communities inside and outside the school. Factors that promoted the process comprised the scarcity of learning resources, insufficient infrastructure, a shortage of qualified educators, and the psychological well-being of students during the learning process. The instructional media used for the instruction were loose parts and natural materials surrounding the children.

Keywords: differentiated instruction, Mover Kindergarten, *Kurikulum Merdeka*

INTRODUCTION

The research was motivated by the significant decline in learning outcomes and the need for effective learning strategies among Indonesian students following the outbreak of the Covid-19 pandemic. The closure of schools followed by the implementation of a limited face-to-face policy resulted in the most significant instances of learning loss in kindergarten and elementary school settings (A. Iskandar et al., 2022; Taimur et al., 2021). The World Bank recently published research findings that indicate a significant loss of study time, ranging from 0.9 to 1.2 years, as well as a decline in reading proficiency by 25-35 points based on the Programme for International Student Assessment (PISA) data. The phenomenon of learning loss has led to a significant

proportion of elementary school students in Indonesia, specifically 70%, exhibiting reading proficiency scores that fall below the established minimum proficiency level (Yarrow et al., 2020). Consequently, this accumulation will impede the attainment of educational goals at subsequent stages. In addition to the implementation of school closures and restrictions on in-person interactions, the primary factor contributing to this issue is the inefficacy of online distance learning.

The success of online distance learning in kindergarten and elementary education is contingent upon the active involvement and support of families and parents. Nevertheless, parents may not always possess the capacity to actively participate in their children's educational endeavors within the home setting (Cho & Ilari, 2021; Novianti & Garzia, 2020; Tabroni et al., 2022). Learning loss refers to a decline in academic knowledge and skills that is attributed to an extended period of remote learning (Donnelly & Patrinos, 2022; Engzell et al., 2021). The cessation of in-person instruction in educational institutions has led to a decline in students' cognitive knowledge, vocational aptitude, and social competencies (Hadie et al., 2021; Hu et al., 2021; Lin & Shek, 2021). The primary determinants encompass the provision of learning resources that entail a cost (Sadeghi, 2019), challenges in seeking guidance from instructors (Ye et al., 2021), interruptions in internet connectivity (Özüdoğru, 2021), and the absence of an established optimal approach to effectively manage online distance learning (Mishra et al., 2020). Educational institutions also encounter challenges associated with constraints in the provision of instructional resources (Cevikbas & Kaiser, 2020). There has been a reduction in the allocated hours for teaching and learning, resulting in inadequate conveyance of subject matter. Additionally, the teaching practicum material poses challenges for instructors. These factors exert a concurrent influence on students.

One possible approach for addressing the case mentioned above involves the reconstruction of the curriculum and learning models that prioritize meaningful and self-directed learning. Differentiated instruction is a pedagogical approach aimed at expediting the attainment of learning goals, thereby enabling educational institutions to mitigate the learning gaps exacerbated by the ongoing pandemic. The utilization of differentiated instruction is advocated due to its inherent benefits in promoting meaningful and student-centered educational experiences (Hasanah et al., 2022; Helmi et al., 2023). The distinguishing feature of the differentiated instructional model resides in its inherent attributes that afford students the ability to navigate their own educational trajectory. Differentiated instruction is an educational approach that highlights the overall well-being and safety of students, both physically and mentally, within the classroom setting (Hasanah et al., 2022).

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Extensive scholarly investigations have been undertaken to explore the concept of differentiated instruction, with particular emphasis on the examination of teacher knowledge, beliefs, and implementation, as well as their impacts on students (Stollman et al., 2019). The learning approach has been positively received by educators as it effectively identifies student needs by considering various factors such as learning readiness, interests, and learning styles (Hirza et al., 2022; Novita Sarie, 2022). The incorporation of differentiated instruction within the classroom setting has been found to yield numerous advantageous outcomes in terms of students' academic advancement and psychosocial growth (Olimov, 2020). At the kindergarten level, differentiated instruction is implemented by offering projects referred to as differentiated projects (DP). Employing DP with comprehensive intervention produced superior results compared to the alternative approach (Dijkstra et al., 2016). The teacher's cognitive comprehension of differentiated instruction significantly impacts its implementation in the classroom.

Numerous scholarly investigations conducted in Indonesia have examined the implementation of differentiated instruction within the *Merdeka* curriculum across different educational tiers. However, a dearth of scholarly inquiry pertaining to kindergarten settings has been observed. The literature search yielded studies examining the application of differentiated instruction in elementary schools, specifically utilizing inquiry models, to enhance students' numeracy skills (Rahmah et al., 2022) and mathematical proficiency (Aprima & Sari, 2022). Previous studies conducted in elementary schools have primarily focused on examining the existing body of literature pertaining to the concept of differentiated instruction. Research has been conducted at the junior high school level to investigate the implementation of differentiated instruction in Mathematics (Evedi et al., 2023), Religious Studies (Simbolon, 2022), and the Indonesian Language (D. Iskandar, 2021). However, other studies have primarily focused on learning styles as a factor to consider in differentiated instruction (Alhafiz, 2022). Research on differentiated instruction at the senior high school level remains constrained primarily to the domains of science (Manalu et al., 2023; Setiyo, 2022) and mathematics (Surat, 2019). Hence, this study will provide significant insights into the application of differentiated instruction in kindergarten, with a particular focus on the Mover Kindergarten where the *Merdeka* curriculum is being implemented. The primary findings of this study will contribute to the existing body of knowledge in this area.

METHOD

Research Design

The present study employed a qualitative descriptive approach in conducting case study

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research. Qualitative research utilizes and gathers diverse empirical materials, such as case studies, personal experiences, introspection, life stories, interviews, observations, historical records, interactional data, and visual texts. These sources provide descriptions of routine moments, meanings, and challenges in an individual's life (Aspers & Corte, 2019; Johnson et al., 2020; Williams, 2019). The aforementioned approach encompasses theological, normative, sociological, managerial, and pedagogic dimensions (Moschella & Willhauck, 2018). The present study focused on the normative theological approach employed by educators when teaching scientific disciplines, particularly in terms of the interplay between human beings and their Creator. The sociological approach was employed to examine the collaborative dynamic between the kindergarten principal or teachers and students, with the aim of fostering a favorable influence on students, specifically in terms of their overall well-being. The utilization of the managerial approach involved the assessment of differentiated instruction, along with the identification of its supporting factors and the development of problem-solving strategies for its implementation. The pedagogical approach encompassed the incorporation of differentiated instructional activities within the educational framework executed by the kindergarten principal and teachers.

Types and Sources of Data

This study involved two distinct categories of data: primary and secondary data. Primary data were gathered using observations, documentation, and in-depth interviews, facilitated by interview guidelines and tape recorders (Hammi, 2017). The employed method of observation was participant observation, wherein the researcher closely monitored and documented the activities of the research subjects (Ciesielska et al., 2017). Documentation in the form of videos or photographs of recorded interviews and observations was considered primary data, whereas secondary data were gathered from schools and other references consisting of documented school policy documents and learning tools. The sample selection takes into account the data requirements. Purposive sampling was used for policy makers, teachers and students. The data were collected from a school principal, two teachers, and fifteen students affiliated with *Aisyiyah Bustanul Athfal* Kindergarten.

Data Collection

The data were gathered via observation, interviews, and documentation. Observations were employed due to the manageable scale of data pertaining to human behavior, work processes,

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natural phenomena, and the observed respondents (Moser & Korstjens, 2018). During the observations, observers directed their attention towards various elements of learning such as planning, implementation, evaluation, supporting and inhibiting factors, and the contributions of the participating school towards the achievement of differentiated learning outcomes. The objective was to develop a comprehensive understanding of effective differentiated instructional strategies in early childhood education, with a specific focus on the integration of technology in the current global computing era. The principal was interviewed in relation to learning policies. Data on the various aspects of planning, implementation, evaluation, and the factors that either support or inhibit the implementation of differentiated instruction were collected through interviews conducted with both teachers and students. Documentation was conducted to verify the accuracy of the data obtained through observations and interviews. The analyzed documents included daily journals, attendance lists, supervision books, and official school documents such as the School Work Program, Curriculum, Annual Program, Semester Program, Teaching Modules, Assessments, and Reflection journals. In this study, the researchers assumed a pivotal role as the primary instrument so that their comprehension of research variables was vital (Clark & Vealé, 2018; Rogers, 2018).

Data Triangulation

The data were validated through technique and source triangulation. Source triangulation involved the comparison of data derived from a singular source with data obtained from multiple sources or collected through diverse methods and temporal contexts. The present study cross-validated the data collected through interviews conducted with the school principal, with the data obtained from interviews conducted with teachers and students. The technique triangulation employed in this study involved the systematic comparison of interview data, observational data, and documentation collected at various points in time. The data collected from interviews with informants, observations, and documents were synthesized, considering the reliability, dependability, and certainty factors.

Data Analysis

The study's data were analyzed using the interactive qualitative data analysis suggested by Miles dan Huberman, which consisted of data reduction, data display, conclusion drawing/verification (Aman Mezmir, 2020; Miles et al., 2013; Victoria Elliott, 2018).

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RESULTS AND DISCUSSION

The Planning of Differentiated Instruction

Differentiated instruction revolves around acknowledging and addressing the diverse learning needs exhibited by students. This phenomenon can be attributed to the fact that students are exposed to diverse environments (Bayumi, 2021). The implementation of differentiated instruction in the classroom is essential for addressing the diverse learning needs of students, encompassing their individual interests, levels of preparedness for learning, and preferred learning styles. The effective execution of differentiated instruction at the research location was impacted by the principal's role. To enhance educational standards at the kindergarten, the principal has implemented policies and programs that prioritize the well-being and success of students. These initiatives included the development of an adaptive curriculum and the implementation of programs aimed at fostering teacher creativity to increase the effectiveness of instruction and maximize learning outcomes. The kindergarten even held a training program, wherein proficient resource individuals were invited to aid teachers in enhancing their creativity and innovation in education.

The findings from the interview conducted with the principal indicated that the principal implemented policies pertaining to differentiated instruction with the aim of enhancing the overall quality of education and facilitating students in attaining their learning objectives. The implementation of differentiated instruction was anticipated to effectively support student well-being in the classroom, irrespective of the variations in their learning styles. The principal's role was oriented towards promoting student progress and the principal's policy was focused on the development of students in accordance with their individual learning styles. Through the principal's programs and policies, it was expected that the acquisition of knowledge could yield substantial advantages for students in the forthcoming years. We observed the active involvement of the internal and external community members. The school principal consistently engaged in the dissemination of school programs to student guardians, school committees, and foundation administrators. Therefore, the strategies implemented by the school principal garnered endorsement and favorable reactions from the neighboring community.

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The results of the interviews with the school principal are consistent with what the chairman and vice chairman of the school committee communicated. According to them, the school's programs thus far have been extremely fascinating and creative. According to them, school programs have been able to support the development of student competencies, where students' accomplishments are aligned with their interests and abilities, and where learning is also aligned with students' readiness levels and learning styles. The school committee admitted that they never received negative responses or complaints from kindergarten parents regarding educational activities. This finding suggests that the school's curriculum can be accepted by all school members.

The Implementation of Differentiated Instruction

The study's findings revealed that teachers at Aisyiah Kindergarten played an active role as learning agents who could develop learning based on their students' learning interests, readiness, and learning styles. They were constantly committed to advancing learning for the benefit of their students. These teachers attempted to comprehend and acquire information about differentiated instruction through autonomous study on the *Merdeka Mengajar* Platform, collaboration with colleagues, and participation in learning workshops. They also tried to comprehend the principles of differentiated instruction that must be implemented in the classroom and continued to better these learning activities. In addition, the teachers maintained a commitment to implementing learning that is consistent with the needs of the times, which are always in the students' favor. They sought to provide students with the finest learning opportunities in order to maximize their learning outcomes.

In the execution of differentiated instruction, the teachers conducted engaging, diverse, and stimulating learning activities. In this particular scenario, the educational institution offered students the chance to engage in learning activities with increased levels of participation. The instructional content was disseminated through suitable pedagogical approaches, facilitating enhanced comprehension among students. The teachers could successfully establish a conducive learning environment by cultivating students' interpersonal connections and active participation in various learning activities. The teachers also fostered a culture of peer tutoring among students, thereby promoting mutual motivation. The teachers employed instructional strategies involving various forms of media to enhance the cultivation of students' abilities, inclinations, preparedness for learning, and learning styles. The teachers were also capable of

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inspiring students through the use of trigger sentences. The findings of this study revealed that educators at Aisyiah Kindergarten demonstrated a proactive approach in carrying out assessments of learning, thereby enabling them to enhance future learning endeavors.

At the designated research site, educators have successfully incorporated optimal elements of differentiated instruction, including the establishment of positive environmental conditions that effectively foster students' engagement in the learning process and facilitate the cultivation of their competencies. The establishment of a collaborative and conducive learning environment is essential in fostering students' intrinsic motivation to acquire knowledge, thereby facilitating their holistic personal growth and development. The positive learning environment is conducive to the fulfillment of students' prosperity and inner and outer happiness. The findings derived from our observations indicated that engaging learning activities could stimulate students intellectually. Figure 1 illustrates outside-class activities aimed at familiarizing students with indigenous flora, including ginger, *kencur* (aromatic ginger), and *lempuyang* (*Zingiber aromaticum*).



Figure 1. Outing class activities introducing students to indigenous flora

Differentiated instruction refers to the instructional approach employed by educators to cater to the diverse needs of students. Teachers, acting as facilitators of learning, utilize various strategies to assess and accommodate students' individual abilities, taking into account their interests, learning preparedness, and preferred learning styles. Teachers at the research site implemented differentiated instruction utilizing the central model, which involved the use of demonstration methods, out-of-class experiences, and role playing. When implementing

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differentiated instruction, the teachers created an optimal learning environment that could foster a sense of safety and comfort among students. Differentiated instruction was also implemented through the integration of holistic-integrative activities, which aimed to provide children with a deep understanding (*Haqul Yakin*) or hands-on experiences.

Differentiated instruction is anticipated to afford students the opportunity to enhance their potential in accordance with their individual levels of preparedness, areas of interest, and study profiles (Gheysens et al., 2022). Considering student learning profiles, such as learning styles, has been acknowledged as a proactive approach to address potential learning challenges (Erviana et al., 2017; Maryani, Fatmawati, et al., 2018; Maryani, Husna, et al., 2018). Research indicates that students who receive differentiated instruction exhibit superior learning outcomes compared to students in the conventional teaching method group (O. A. Awofala & O. Lawani, 2020). In conjunction with learning outcomes, differentiated instruction yields other positive effects, including heightened motivation, enhanced student-teacher rapport, and the reduction of the student achievement disparity (Ginja & Chen, 2020).

Factors Promoting and Inhibiting Differentiated Instruction

We found several factors that supported the implementation of differentiated instruction in Aisyiyah Kindergarten. These factors included the establishment of a secure, comfortable, and conducive learning environment for students, the availability of adequate instructional resources, the consideration of students' psychological conditions and readiness for learning, and the active involvement of the school community both within and outside the educational institution. The involvement of community members significantly contributed to the successful implementation of differentiated instruction at the kindergarten. The level of community engagement with the school's activity programs significantly influenced the educational experience and outcomes within the school environment. The impediments to the successful implementation of differentiated instruction primarily stemmed from constraints related to learning resources, insufficient infrastructure, a shortage of teaching personnel, and the psychological state of students during the learning process. At Aisyiyah Kindergarten, the instructional media employed for differentiated instruction included loose parts and natural resources found in the immediate environment surrounding the students. The findings from the interviews conducted with teachers at the research site are presented in Figure 2.

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been implemented thus far. Furthermore, the educational institution consistently communicated with stakeholders and other school communities.

The implementation of differentiated instruction is hindered by various challenges, including the substantial teaching workload faced by educators, the size of the class, and the allocation of teaching time (Al-Shaboul et al., 2021). Furthermore, a significant challenge is presented by the wide range of teacher philosophies and practices that must be navigated in order to effectively tailor instruction to students' individual interests, levels of preparedness, and unique learning profiles (Butova et al., 2019). The primary obstacle lies in the way educators can effectively evaluate their students in order to inform and shape their instructional practices. There are several factors that contribute to the suboptimal implementation of differentiated instruction. One such factor is the insufficient frequency of implementing this approach, which falls below the recommended level necessary to effectively address the heterogeneity of students and teachers' various competencies in dealing with the challenges (Pozas et al., 2020). The primary obstacles associated with differentiated instruction also encompass insufficient teacher proficiency, limited time to manage heavy workloads, and inadequate time for evaluating student learning (Shareefa, 2020). The challenges encountered by educators in various research locations may exhibit variations. This research has not extensively examined the endeavors undertaken by other schools to address the challenges associated with the implementation of differentiated instruction.

CONCLUSION

The results of the current study showed that the application of differentiated instruction at Aisyiyah kindergarten was conducted through a holistic-integrative approach, thereby enabling children to engage in meaningful and hands-on experiences. At the designated research site, differentiated instruction was carried out using the center learning model, which involved the utilization of demonstration techniques, outing classes, and role-playing exercises. Various factors contributed to the successful implementation of differentiated instruction. These factors encompassed the provision of a conducive environment that might foster a sense of security and comfort among students, the availability of appropriate instructional media, the consideration of students' psychological well-being, their readiness to engage in learning, and the involvement of the broader community both within and outside the school. The implementation of differentiated instruction was hindered by various factors, including limited

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availability of learning resources, inadequate infrastructure, insufficient teaching personnel, and the psychological state of students during the learning process. This requires the attention of school principals to make policies and increase the role of the community and parents in collaboration.

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**Participants**

Ika Maryani (ikamaryani)

Mohammad Fauziddin (mfauziddin)

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Differentiated Instruction in Mover Kindergarten: A Model Implementation with Kurikulum Merdeka

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Abstract

This study formulated a model for differentiated instruction at a kindergarten and described the factors that promoted or inhibited its implementation. A qualitative case study design was employed. The data were gathered through interview, observation, and documentation. The study involved a kindergarten principal, two kindergarten teachers, and 15 students from *Aisyiyah Bustanul Athfal* kindergarten as the mover school. Researchers were assisted by an interview guideline, an observation guideline, and documentations. Data analysis was performed based on Miles and Huberman's interactive model. The data were validated through source and technique triangulation. Differentiated instruction was conducted using the center learning model, using demonstration, outing-class, and role-playing methods. Factors that facilitated the differentiated instruction implementation at the kindergarten included a supportive, safe, and comfortable learning environment, sufficient resources and materials, students' psychological conditions and preparedness for learning, and the active engagement of school communities inside and outside the school. Factors that promoted the process comprised the scarcity of learning resources, insufficient infrastructure, a shortage of qualified educators, and the psychological well-being of students during the learning process. The instructional media used for the instruction were loose parts and natural materials surrounding the children.

Keywords: differentiated instruction, Mover Kindergarten, *Kurikulum Merdeka*

INTRODUCTION

The research was motivated by the significant decline in learning outcomes and the need for effective learning strategies among Indonesian students following the outbreak of the Covid-19 pandemic. The closure of schools followed by the implementation of a limited face-to-face policy resulted in the most significant instances of learning loss in kindergarten and elementary school settings (A. Iskandar et al., 2022; Taimur et al., 2021). The World Bank recently published research findings that indicate a significant loss of study time, ranging from 0.9 to 1.2 years, as well as a decline in reading proficiency by 25-35 points based on the Programme for International Student Assessment (PISA) data. The phenomenon of learning loss

has led to a significant proportion of elementary school students in Indonesia, specifically 70%, exhibiting reading proficiency scores that fall below the established minimum proficiency level (Yarrow et al., 2020). Consequently, this accumulation will impede the attainment of educational goals at subsequent stages. In addition to the implementation of school closures and restrictions on in-person interactions, the primary factor contributing to this issue is the inefficacy of online distance learning.

The success of online distance learning in kindergarten and elementary education is contingent upon the active involvement and support of families and parents. Nevertheless, parents may not always possess the capacity to actively participate in their children's educational endeavors within the home setting (Cho & Ilari, 2021; Novianti & Garzia, 2020; Tabroni et al., 2022). Learning loss refers to a decline in academic knowledge and skills that is attributed to an extended period of remote learning (Donnelly & Patrinos, 2022; Engzell et al., 2021). The cessation of in-person instruction in educational institutions has led to a decline in students' cognitive knowledge, vocational aptitude, and social competencies (Hadie et al., 2021; Hu et al., 2021; Lin & Shek, 2021). The primary determinants encompass the provision of learning resources that entail a cost (Sadeghi, 2019), challenges in seeking guidance from instructors (Ye et al., 2021), interruptions in internet connectivity (Özüdoğru, 2021), and the absence of an established optimal approach to effectively manage online distance learning (Mishra et al., 2020). Educational institutions also encounter challenges associated with constraints in the provision of instructional resources (Cevikbas & Kaiser, 2020). There has been a reduction in the allocated hours for teaching and learning, resulting in inadequate conveyance of subject matter. Additionally, the teaching practicum material poses challenges for instructors. These factors exert a concurrent influence on students.

One possible approach for addressing the case mentioned above involves the reconstruction of the curriculum and learning models that prioritize meaningful and self-directed learning. Differentiated instruction is a pedagogical approach aimed at expediting the attainment of learning goals, thereby enabling educational institutions to mitigate the learning gaps exacerbated by the ongoing pandemic. The utilization of differentiated instruction is advocated due to its inherent benefits in promoting meaningful and student-centered educational experiences (Hasanah et al., 2022; Helmi et al., 2023). The distinguishing feature of the differentiated instructional model resides in its inherent attributes that afford students the ability to navigate their own educational trajectory. Differentiated instruction is an educational approach that highlights the overall well-being and safety of students, both physically and mentally, within the classroom setting (Hasanah et al., 2022).

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Extensive scholarly investigations have been undertaken to explore the concept of differentiated instruction, with particular emphasis on the examination of teacher knowledge, beliefs, and implementation, as well as their impacts on students (Stollman et al., 2019). The learning approach has been positively received by educators as it effectively identifies student needs by considering various factors such as learning readiness, interests, and learning styles (Hirza et al., 2022; Novita Sarie, 2022). The incorporation of differentiated instruction within the classroom setting has been found to yield numerous advantageous outcomes in terms of students' academic advancement and psychosocial growth (Olimov, 2020). At the kindergarten level, differentiated instruction is implemented by offering projects referred to as differentiated projects (DP). Employing DP with comprehensive intervention produced superior results compared to the alternative approach (Dijkstra et al., 2016). The teacher's cognitive comprehension of differentiated instruction significantly impacts its implementation in the classroom.

Numerous scholarly investigations conducted in Indonesia have examined the implementation of differentiated instruction within the *Merdeka* curriculum across different educational tiers. However, a dearth of scholarly inquiry pertaining to kindergarten settings has been observed. The literature search yielded studies examining the application of differentiated instruction in elementary schools, specifically utilizing inquiry models, to enhance students' numeracy skills (Rahmah et al., 2022) and mathematical proficiency (Aprima & Sari, 2022). Previous studies conducted in elementary schools have primarily focused on examining the existing body of literature pertaining to the concept of differentiated instruction. Research has been conducted at the junior high school level to investigate the implementation of differentiated instruction in Mathematics (Evedi et al., 2023), Religious Studies (Simbolon, 2022), and the Indonesian Language (D. Iskandar, 2021). However, other studies have primarily focused on learning styles as a factor to consider in differentiated instruction (Alhafiz, 2022). Research on differentiated instruction at the senior high school level remains constrained primarily to the domains of science (Manalu et al., 2023; Setiyo, 2022) and mathematics (Surat, 2019). Hence, this study will provide significant insights into the application of differentiated instruction in kindergarten, with a particular focus on the Mover Kindergarten where the *Merdeka* curriculum is being implemented. The primary findings of this study will contribute to the existing body of knowledge in this area.

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METHOD

Research Design

The present study employed a qualitative descriptive approach in conducting case study research. Qualitative research utilizes and gathers diverse empirical materials, such as case studies, personal experiences, introspection, life stories, interviews, observations, historical records, interactional data, and visual texts. These sources provide descriptions of routine moments, meanings, and challenges in an individual's life (Aspers & Corte, 2019; Johnson et al., 2020; Williams, 2019). The aforementioned approach encompasses theological, normative, sociological, managerial, and pedagogic dimensions (Moschella & Willhauck, 2018). The present study focused on the normative theological approach employed by educators when teaching scientific disciplines, particularly in terms of the interplay between human beings and their Creator. The sociological approach was employed to examine the collaborative dynamic between the kindergarten principal or teachers and students, with the aim of fostering a favorable influence on students, specifically in terms of their overall well-being. The utilization of the managerial approach involved the assessment of differentiated instruction, along with the identification of its supporting factors and the development of problem-solving strategies for its implementation. The pedagogical approach encompassed the incorporation of differentiated instructional activities within the educational framework executed by the kindergarten principal and teachers.

Types and Sources of Data

This study involved two distinct categories of data: primary and secondary data. Primary data were gathered using observations, documentation, and in-depth interviews, facilitated by interview guidelines and tape recorders (Hammi, 2017). The employed method of observation was participant observation, wherein the researcher closely monitored and documented the activities of the research subjects (Ciesielska et al., 2017). Documentation in the form of videos or photographs of recorded interviews and observations was considered primary data, whereas secondary data were gathered from schools and other references consisting of documented school policy documents and learning tools. The sample selection takes into account the data requirements. Purposive sampling was used for policy makers, teachers and students. The data were collected from a school principal, two teachers, and fifteen students affiliated with *Aisyiyah Bustanul Athfal* Kindergarten.

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Data Collection

The data were gathered via observation, interviews, and documentation. Observations were employed due to the manageable scale of data pertaining to human behavior, work processes, natural phenomena, and the observed respondents (Moser & Korstjens, 2018). During the observations, observers directed their attention towards various elements of learning such as planning, implementation, evaluation, supporting and inhibiting factors, and the contributions of the participating school towards the achievement of differentiated learning outcomes. The objective was to develop a comprehensive understanding of effective differentiated instructional strategies in early childhood education, with a specific focus on the integration of technology in the current global computing era. The principal was interviewed in relation to learning policies. Data on the various aspects of planning, implementation, evaluation, and the factors that either support or inhibit the implementation of differentiated instruction were collected through interviews conducted with both teachers and students. Documentation was conducted to verify the accuracy of the data obtained through observations and interviews. The analyzed documents included daily journals, attendance lists, supervision books, and official school documents such as the School Work Program, Curriculum, Annual Program, Semester Program, Teaching Modules, Assessments, and Reflection journals. In this study, the researchers assumed a pivotal role as the primary instrument so that their comprehension of research variables was vital (Clark & Vealé, 2018; Rogers, 2018).

Data Triangulation

The data were validated through technique and source triangulation. Source triangulation involved the comparison of data derived from a singular source with data obtained from multiple sources or collected through diverse methods and temporal contexts. The present study cross-validated the data collected through interviews conducted with the school principal, with the data obtained from interviews conducted with teachers and students. The technique triangulation employed in this study involved the systematic comparison of interview data, observational data, and documentation collected at various points in time. The data collected from interviews with informants, observations, and documents were synthesized, considering the reliability, dependability, and certainty factors.

Data Analysis

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The study's data were analyzed using the interactive qualitative data analysis suggested by Miles dan Huberman, which consisted of data reduction, data display, conclusion drawing/verification (Aman Mezmir, 2020; Miles et al., 2013; Victoria Elliott, 2018).

RESULTS AND DISCUSSION

The Planning of Differentiated Instruction

Differentiated instruction revolves around acknowledging and addressing the diverse learning needs exhibited by students. This phenomenon can be attributed to the fact that students are exposed to diverse environments (Bayumi, 2021). The implementation of differentiated instruction in the classroom is essential for addressing the diverse learning needs of students, encompassing their individual interests, levels of preparedness for learning, and preferred learning styles. The effective execution of differentiated instruction at the research location was impacted by the principal's role. To enhance educational standards at the kindergarten, the principal has implemented policies and programs that prioritize the well-being and success of students. These initiatives included the development of an adaptive curriculum and the implementation of programs aimed at fostering teacher creativity to increase the effectiveness of instruction and maximize learning outcomes. The kindergarten even held a training program, wherein proficient resource individuals were invited to aid teachers in enhancing their creativity and innovation in education.

The findings from the interview conducted with the principal indicated that the principal implemented policies pertaining to differentiated instruction with the aim of enhancing the overall quality of education and facilitating students in attaining their learning objectives. The implementation of differentiated instruction was anticipated to effectively support student well-being in the classroom, irrespective of the variations in their learning styles. The principal's role was oriented towards promoting student progress and the principal's policy was focused on the development of students in accordance with their individual learning styles. Through the principal's programs and policies, it was expected that the acquisition of knowledge could yield substantial advantages for students in the forthcoming years. We observed the active involvement of the internal and external community members. The school principal consistently engaged in the dissemination of school programs to student guardians, school committees, and foundation administrators. Therefore, the strategies implemented by

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the school principal garnered endorsement and favorable reactions from the neighboring community.

The results of the interviews with the school principal are consistent with what the chairman and vice chairman of the school committee communicated. According to them, the school's programs thus far have been extremely fascinating and creative. According to them, school programs have been able to support the development of student competencies, where students' accomplishments are aligned with their interests and abilities, and where learning is also aligned with students' readiness levels and learning styles. The school committee admitted that they never received negative responses or complaints from kindergarten parents regarding educational activities. This finding suggests that the school's curriculum can be accepted by all school members.

The Implementation of Differentiated Instruction

The study's findings revealed that teachers at Aisyiah Kindergarten played an active role as learning agents who could develop learning based on their students' learning interests, readiness, and learning styles. They were constantly committed to advancing learning for the benefit of their students. These teachers attempted to comprehend and acquire information about differentiated instruction through autonomous study on the *Merdeka Mengajar* Platform, collaboration with colleagues, and participation in learning workshops. They also tried to comprehend the principles of differentiated instruction that must be implemented in the classroom and continued to better these learning activities. In addition, the teachers maintained a commitment to implementing learning that is consistent with the needs of the times, which are always in the students' favor. They sought to provide students with the finest learning opportunities in order to maximize their learning outcomes.

In the execution of differentiated instruction, the teachers conducted engaging, diverse, and stimulating learning activities. In this particular scenario, the educational institution offered students the chance to engage in learning activities with increased levels of participation. The instructional content was disseminated through suitable pedagogical approaches, facilitating enhanced comprehension among students. The teachers could successfully establish a conducive learning environment by cultivating students' interpersonal connections and active participation in various learning activities. The teachers also fostered a culture of peer tutoring

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among students, thereby promoting mutual motivation. The teachers employed instructional strategies involving various forms of media to enhance the cultivation of students' abilities, inclinations, preparedness for learning, and learning styles. The teachers were also capable of inspiring students through the use of trigger sentences. The findings of this study revealed that educators at Aisyiah Kindergarten demonstrated a proactive approach in carrying out assessments of learning, thereby enabling them to enhance future learning endeavors.

At the designated research site, educators have successfully incorporated optimal elements of differentiated instruction, including the establishment of positive environmental conditions that effectively foster students' engagement in the learning process and facilitate the cultivation of their competencies. The establishment of a collaborative and conducive learning environment is essential in fostering students' intrinsic motivation to acquire knowledge, thereby facilitating their holistic personal growth and development. The positive learning environment is conducive to the fulfillment of students' prosperity and inner and outer happiness. The findings derived from our observations indicated that engaging learning activities could stimulate students intellectually. Figure 1 illustrates outside-class activities aimed at familiarizing students with indigenous flora, including ginger, *kencur* (aromatic ginger), and *lempuyang* (*Zingiber aromaticum*).



Figure 1. Outing class activities introducing students to indigenous flora

Differentiated instruction refers to the instructional approach employed by educators to cater to the diverse needs of students. Teachers, acting as facilitators of learning, utilize various strategies to assess and accommodate students' individual abilities, taking into account their

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interests, learning preparedness, and preferred learning styles. Teachers at the research site implemented differentiated instruction utilizing the central model, which involved the use of demonstration methods, out-of-class experiences, and role playing. When implementing differentiated instruction, the teachers created an optimal learning environment that could foster a sense of safety and comfort among students. Differentiated instruction was also implemented through the integration of holistic-integrative activities, which aimed to provide children with a deep understanding (*Haqul Yakin*) or hands-on experiences.

Differentiated instruction is anticipated to afford students the opportunity to enhance their potential in accordance with their individual levels of preparedness, areas of interest, and study profiles (Gheysens et al., 2022). Considering student learning profiles, such as learning styles, has been acknowledged as a proactive approach to address potential learning challenges (Erviana et al., 2017; Maryani, Fatmawati, et al., 2018; Maryani, Husna, et al., 2018). Research indicates that students who receive differentiated instruction exhibit superior learning outcomes compared to students in the conventional teaching method group (O. A. Awofala & O. Lawani, 2020). In conjunction with learning outcomes, differentiated instruction yields other positive effects, including heightened motivation, enhanced student-teacher rapport, and the reduction of the student achievement disparity (Ginja & Chen, 2020).

Factors Promoting and Inhibiting Differentiated Instruction

We found several factors that supported the implementation of differentiated instruction in Aisyiyah Kindergarten. These factors included the establishment of a secure, comfortable, and conducive learning environment for students, the availability of adequate instructional resources, the consideration of students' psychological conditions and readiness for learning, and the active involvement of the school community both within and outside the educational institution. The involvement of community members significantly contributed to the successful implementation of differentiated instruction at the kindergarten. The level of community engagement with the school's activity programs significantly influenced the educational experience and outcomes within the school environment. The impediments to the successful implementation of differentiated instruction primarily stemmed from constraints related to learning resources, insufficient infrastructure, a shortage of teaching personnel, and the psychological state of students during the learning process. At Aisyiyah Kindergarten, the instructional media employed for differentiated instruction included loose parts and natural

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resources found in the immediate environment surrounding the students. The findings from the interviews conducted with teachers at the research site are presented in Figure 2.

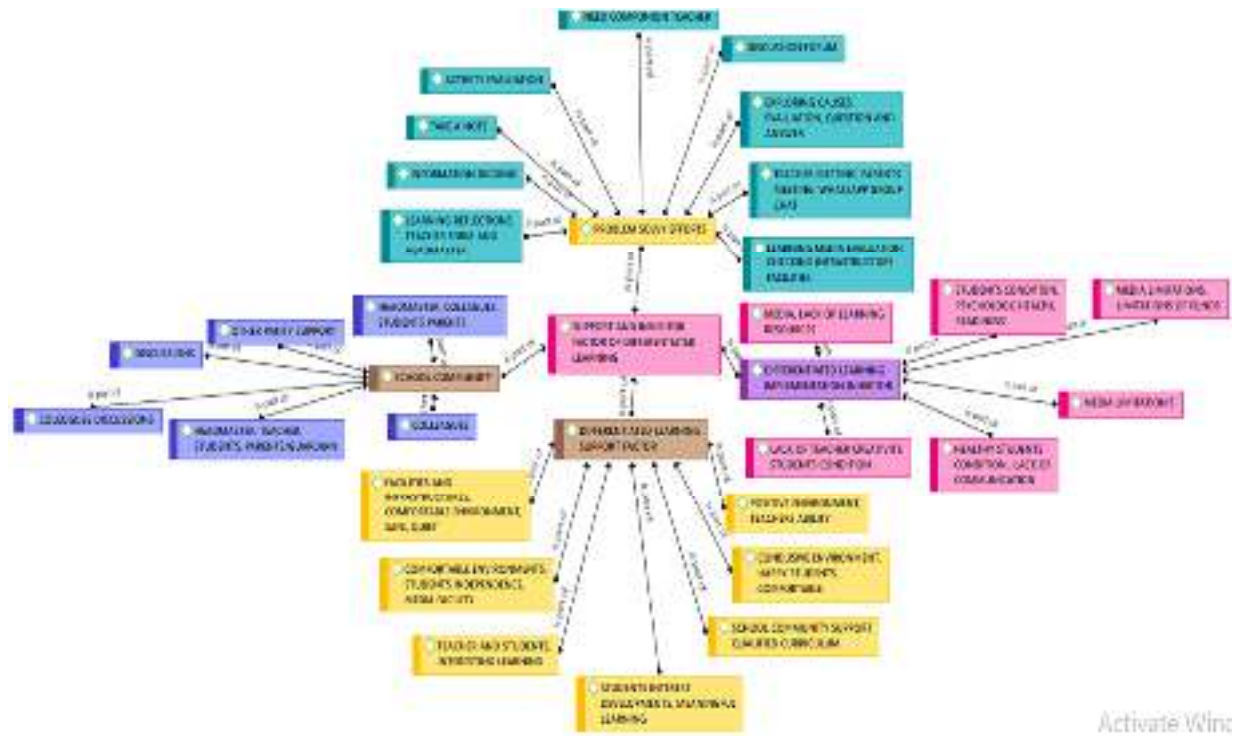


Figure 2. The Results of Teacher Interviews

The successful implementation of differentiated instruction at the research location was impeded by various factors, which can be addressed by taking into account the specific circumstances and needs of the students. To address the challenges associated with learning assessment, the educators at the educational institution took the initiative to jot down brief observations during the instructional session. To address the challenges posed by students with unfavorable psychological states, such as restlessness, illness, fatigue, and anger, the teachers offered motivational support within the classroom setting. This approach aimed to ensure that the academic progress of unaffected students remained uninterrupted despite the presence of peers experiencing psychological distress. The teachers at the kindergarten consistently made sure that students maintained their enthusiasm during educational endeavors. The teachers also attempted to establish a sense of stability within the educational setting in order to maintain an environment that is conducive to the seamless execution of learning assessments. The successful implementation of differentiated instruction, encompassing all stages from initiation to assessment, was contingent upon effective communication and collaboration with all school members. This endeavor was undertaken to

collaboratively assess the effectiveness of the differentiated instruction programs that had been implemented thus far. Furthermore, the educational institution consistently communicated with stakeholders and other school communities.

The implementation of differentiated instruction is hindered by various challenges, including the substantial teaching workload faced by educators, the size of the class, and the allocation of teaching time (Al-Shaboul et al., 2021). Furthermore, a significant challenge is presented by the wide range of teacher philosophies and practices that must be navigated in order to effectively tailor instruction to students' individual interests, levels of preparedness, and unique learning profiles (Butova et al., 2019). The primary obstacle lies in the way educators can effectively evaluate their students in order to inform and shape their instructional practices. There are several factors that contribute to the suboptimal implementation of differentiated instruction. One such factor is the insufficient frequency of implementing this approach, which falls below the recommended level necessary to effectively address the heterogeneity of students and teachers' various competencies in dealing with the challenges (Pozas et al., 2020). The primary obstacles associated with differentiated instruction also encompass insufficient teacher proficiency, limited time to manage heavy workloads, and inadequate time for evaluating student learning (Shareefa, 2020). The challenges encountered by educators in various research locations may exhibit variations. This research has not extensively examined the endeavors undertaken by other schools to address the challenges associated with the implementation of differentiated instruction.

CONCLUSION

The results of the current study showed that the application of differentiated instruction at Aisyiyah kindergarten was conducted through a holistic-integrative approach, thereby enabling children to engage in meaningful and hands-on experiences. At the designated research site, differentiated instruction was carried out using the center learning model, which involved the utilization of demonstration techniques, outing classes, and role-playing exercises. Various factors contributed to the successful implementation of differentiated instruction. These factors encompassed the provision of a conducive environment that might foster a sense of security and comfort among students, the availability of appropriate instructional media, the consideration of students' psychological well-being, their readiness to engage in learning, and the involvement of the broader community both within and outside the school. The

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implementation of differentiated instruction was hindered by various factors, including limited availability of learning resources, inadequate infrastructure, insufficient teaching personnel, and the psychological state of students during the learning process. This requires the attention of school principals to make policies and increase the role of the community and parents in collaboration.

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Compose

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[JECCE] Editor Decision External Inbox x



Mohammad Fauziddin <mfauziddin@gmail.com>
to me, Ristiyati

Thu, Aug 31, 10:

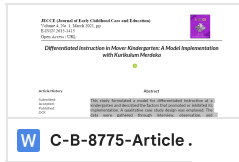
Ika Maryani, Ristiyati Ristiyati:

We have reached a decision regarding your submission to Journal of Early Childhood Care and Education , "The Form Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka".

Our decision is to: Accept Submission

Mohammad Fauziddin

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Notifications



[JECCE] Editor Decision

Bukti Accepted 31 Agustus 2023)

2023-08-31 03:14 PM

Ika Maryani, Ristiyati Ristiyati:

We have reached a decision regarding your submission to Journal of Early Childhood Care and Education , "The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka".

Our decision is to: Accept Submission

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Notifications



[JECCE] Editor Decision

Bukti Accepted 31 Agustus 2023)

2023-08-31 03:14 PM

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We have reached a decision regarding your submission to Journal of Early Childhood Care and Education , "The Formulation of a Model for Differentiated Instruction at the Mover Kindergarten with Kurikulum Merdeka".

Our decision is to: Accept Submission

Mohammad Fauziddin



Differentiated instruction in mover kindergarten: A model implementation with merdeka curriculum

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Keywords: differentiated instruction;, mover kindergarten;, kurikulum merdeka

Abstract

This study formulated a model for differentiated instruction at a kindergarten and described the factors that promoted or inhibited its implementation. A qualitative case study design was employed. The data were gathered through interview, observation, and documentation. The study involved a kindergarten principal, two kindergarten teachers, and 15 students from *Aisyiyah Bustanul Athfal* kindergarten as the mover school. Researchers were assisted by an interview guideline, an observation guideline, and documentations. Data analysis was performed based on Miles and Huberman's interactive model. The data were validated through source and technique triangulation. Differentiated instruction was conducted using the center learning model, using demonstration, outing-class, and role-playing methods. Factors that facilitated the differentiated instruction implementation at the kindergarten included a supportive, safe, and comfortable learning environment, sufficient resources and materials, students' psychological conditions and preparedness for learning, and the active engagement of school communities inside and outside the school. Factors that promoted the process comprised the scarcity of learning resources, insufficient infrastructure, a shortage of qualified educators, and the psychological well-being of students during the learning process. The instructional media used for the instruction were loose parts and natural materials surrounding the children.

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