



ROLE TEACHER IN EDUCATION CHARACTER TO DEVELOPMENT SCIENCE AND TECHNOLOGY AND LITERACY IN ELEMENTARY SCHOOL CHILDREN

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Abstract

Character education, science and technology, and literacy are strategic elements in developing a superior generation starting in elementary school. This study aims to examine the role of teachers in instilling character education and its relationship with mastery technology and ability literacy student. This study is done through a literature review method to examine various results, studies, and regulations which are relevant. Findings show that the teacher has a central position as a facilitator, motivator, dynamic, counselor, and evaluator in integrating character values with learning science and technology and literacy. Education character has become an important factor in guiding students to use technology in an ethical way as well as to interpret information critically. Because of that, strengthening the competence of teachers in the context of literacy, especially digital literacy, is the main key to improving the quality of education in the digital era.

Keywords : Role Teacher, education character, Science and Technology, literacy, literacy digital, student Elementary School

Introduction

Education holds a role which is very important in life, good in scope family, society, as well as national and state life. Education serves as a means of character building, discipline, a sense of responsibility, and physical and spiritual development. Amidst increasingly advanced technological developments in the era of globalization, the education system is also undergoing transformation, one of which is through the emergence of various more active and innovative learning methods. Cognitively, literacy learning aims to encourage students to apply various strategies and mental processes to construct meaning based on text, purpose, and audience. Meanwhile, from a cultural perspective, literacy learning directs students to understand meaning in the context of social groups, cross culture, as well as norms and values which apply. Along development literacy concept, the approach has also changed. Literacy is now understood as an activity that can hone students' skills, foster understanding, and build disciplined habits and linguistic insight, particularly in Indonesia. Literacy also can support concentration study and become a strategy in school to increase interest and students' reading abilities (Wiedardarti, 2016). Technological advances have had a significant impact on the field of education, providing new challenges for educators in the digital era. Teachers need more control technology than students use to maximize the learning process (Dasor et al., 2021). Teachers' ability to operate technology is a crucial element in improving the quality of education and achieving academic targets (Julianto & Umami, 2023). Therefore, the role of teachers is crucial as a facilitator of learning in the digital age. Literacy alone covers aspects of culture, knowledge, and in-depth intelligence. Unfortunately, the literacy rate of elementary school students in Indonesia is still relatively low, especially in letter recognition (Solihin et al., 2020). To build a culture of literacy, teachers need to be role models, motivators, and as well as facilitators which give appreciation and guidance to students (Julianto, 2023a). Without the involvement of active teachers, literacy culture is difficult to realize.

Literacy is a fundamental skill that is vital in life. Literacy refers to the ability to understand, access, as well as

apply information in a way wise through various activity like see, reading, listening, writing, and speaking. Abidin, Mulyati, and Yunansah (2017:1) define literacy as the ability to utilize images and language in various forms for the purposes of writing, reading, speaking, listening, critical thinking, and conveying information. Based on the 2011 PIRLS International Result In Reading report, Indonesia ranked 45th out of 48 countries with a score of 428, far below the average of 500 (IEA, 2012). Meanwhile, That, results PISA 2009 show Indonesia is at on order 64th with score 396 (OECD, 2013). These data indicate that the Indonesian education system has not been optimal in fostering students' reading skills and interests (Directorate General of Elementary and Secondary Education, 2016:2). Therefore, specific strategies need to be implemented to improve students' reading skills, one of which is by integrating school literacy activities into family and community life so that the School Literacy Movement (GLS) program can have a real impact. The School Literacy Movement (GLS) is an initiative to create schools as learning communities by culture read which strong. According to Wiedarti, et al. (2016:2), GLS is effort comprehensive which involving all inhabitant school, start from Teacher, student, until person old and public, as part from ecosystem education. Movement this also strengthen effort formation character through Regulation Minister Education and Culture Number 23 2015. Ministry Education and Culture has launched the Indonesian Reading Movement and Literacy Movement School. Movement Indonesia Read focus on literacy in environment family and public, whereas GLS emphasizes on activity literacy in school. Wrong one activity which done in GLS is read for 10–15 minutes before the lesson begins. The Ministry of Education and Culture (2016:7–8) emphasizes that GLS is collaborative, involving teachers, students, principals, supervisors, education personnel, parents, school committees, publishers, academics, the community, and the media, under the coordination of the Directorate General of Primary and Secondary Education. According to Abidin, Mulyati, and Greek (2017:6), GLS developed based on nine agenda priority (Nawacita) which is the focus of the Ministry of Education and Culture's work.

In this context, Rusman (2014:58) states that teachers have various roles, including class coordinator, teacher, director, evaluator, learning planner, motivator, and learning environment manager. Teachers also function as role models who must be able to guide and guide students. If students' interest in culture low literacy, then the role Teacher become the more important. Teacher can push students reading books at home and developing school programs that support literacy, such as library visits. These activities aim to foster interest in reading and improve reading skills, thereby enhancing students' knowledge. School libraries are an important source of information for students and teachers to support teaching and learning activities. According to Law No. 43 of 2007, a library is an institution that professionally manages collections of written, printed, and recorded works to meet the needs of education, research, preservation, information, and recreation. School libraries are part of formal educational institutions and serve as learning centers (National Library, 2013:2). The existence of school libraries is expected to help student overcome difficulty Study. Wrong One example utilization library is activity visit which are scheduled alternately per class, so that all students get equal access to learning. In era modern this, literacy digital become wrong one skills main which very required by society. Digital literacy enables individuals to access information, communicate, and innovate. These skills are very determine opportunity work and quality life. by because that, collaboration between government, world business, and The community is very much needed to expand access to technological literacy, in order to increase economic competitiveness and create a balance in development between regions in Indonesia (Aksenta et al., 2023). Teachers play a very important role in digital literacy learning, especially in guiding students. For understand, evaluate, as well as use technology in a way wise. In his position as facilitator, teacher not only on duty teach method use device digital, but also form understanding student about ethics in surfing the internet, protection data personal, and ability differentiate information which accurate from which misleading (Julianto, 2023c). By implementing technology-based learning methods, teachers can create a dynamic learning environment and encourage collaboration, so that students are better prepared to face the challenges of the digital era. Not only that, teachers also sued for keep going develop ability digital through training and improvement professionalism is essential for optimal integration of technology into teaching and learning activities (Dewi et al., 2021). Support from the government and educational institutions is essential to ensure access to learning resources and training that support improved digital literacy among students.

Research Methodology

This study employed a literature review method, examining various relevant literature sources regarding the role of teachers in character education, literacy, and the use of technology in learning. Data sources came from scientific journals, research articles, educational textbooks, and related policy and regulatory documents.

Role Teacher in Education Character and Literacy

Teachers not only function as instructors of subject matter, but also as facilitators, motivators, dynamic agents,

counselors, and evaluators in the educational process. According to Rusman (2014:58), teachers must create a learning environment that stimulates active student involvement, including in literacy activities and character formation. character. Through approach which holistic And example Which Good, Teacher capable implant values such as honesty, discipline, and responsibility. Julianto (2023a) emphasized that teachers who intensively accompany literacy activities can form reading habits in students which have an impact on increasing learning motivation and academic achievement.

Movement Literacy School (GLS)

GLS is a national program aimed at improving students' literacy skills by encouraging them to read for 10–15 minutes before learning begins (Wiedarti et al., 2016). GLS is based on participatory and collaborative principles, involving teachers, students, parents, and the community. In its implementation, teachers act as literacy leaders, designing, implementing, and evaluating character-based literacy activities in schools.

Dimensions Literacy Digital in Learning

Transformation digital demand expansion meaning literacy become literacy digital, namely ability in accessing, evaluating, and using technology-based information wisely. According to Safitri et al. (2020), teachers need to master digital literacy to be able to guide students in filtering correct information, avoiding hoax, as well as use media digital in a way responsible answer. In era Revolution Industry 4.0 and Society 5.0, digital literacy is also related to cybersecurity, digital ethics, and personal data protection. Studies by Accent et al. (2023) emphasize importance synergy between school And government in provide training And support to Teacher in mastery literacy digital. Matter This strengthened by findings Regi & Anggraeni (2021) Which show that Teacher, specifically Teacher PPKn, own not quite enough answer to foster a critical attitude towards information and ethical behavior in the digital space.

Result & Discussion

The results of the observations show that teachers play a key role in fostering students' interest in reading through encouragement for read as well as interact with material reading. Matter this can achieved with designing teaching methods which more interactive and interesting. Teacher need optimize role they in give motivation to encourage students to expand their knowledge through reading and research. This effort is achieved by providing role models and inspiring students, as well as creating opportunities for participation in literacy activities. Teachers must also monitor student progress and provide guidance and support as needed.

Role Teacher as Facilitator

Teachers play a significant role in supporting formal education and significantly influence student learning success. As facilitators, teachers not only transfer knowledge but also create a pleasant learning environment and encourage students to feel safe, happy, enthusiastic, and free to express their opinions (Fauzi & Mustika, 2022). In line with (Farini & Rohita, 2023), teachers also play a role as motivators to encourage students to be interested in reading. A motivator here means someone who is able to provide encouragement, both directly and indirectly, which has a positive impact on a child's behavior, communication, and character. Education, as the primary means of character formation, positions schools as a strategic place to instill moral values such as courtesy, responsibility, and hard work (Marhayani, 2018; Anderson & Sari, 2016; Dalyono & Enny Dwi Lestariningsih, 2017).

Role Teacher as Motivator

The teacher has not quite enough main answer in encouraging, guiding, and inspiring students to reach their full potential. As role models, teachers can motivate students to become more enthusiastic about reading (Panjaitan et al., 2023). Give praise or award, like saying spirit and pat hand, student feel valued and more motivated. even for students who are not yet proficient in reading, teachers continue to provide encouragement to foster their interest in reading. appreciation from teacher can increase trust self student and make process study become more light and fun (Maulana et al., 2022).

Role Teacher as Dynamist

As dynamic agents, teachers play a role in encouraging change and exploring students' potential. Teachers can influence students' character through advice or corrective action when needed. Teachers also facilitate talent development through extracurricular activities and set literacy targets, such as reading a paragraph every morning, which serves to improve students' focus and character (Nisa', 2019).

Role Teacher as Counselor

In their role as counselors, teachers help students overcome various obstacles to maintain their enthusiasm for learning. Teachers discuss the difficulties they face directly with students and provide extra support. to they which need, including student which enthusiastic however still difficulty read. Collaboration The relationship between teachers and parents is also very important in supporting students' reading habits (Fauziah & Ramdhani, 2022).

The Role of Teachers as Evaluators

As an evaluator, the teacher must carry out assessments objectively and honestly, including aspects of personality values. Student. Evaluation well done through test or non-test, with regard to aspects such as pronunciation, fluency, and reading comprehension. Teachers also ask students to record their reading or read their favorite passages aloud to the class as part of the literacy skills evaluation. This assessment is useful for identifying weaknesses and necessary improvement strategies to increase students' interest in reading (Widayati, 2019; Madu & Hariyati, 2023). Reading and writing are fundamental aspects of literacy. Literacy skills are crucial because they are base communication daily. Literacy no only covers read and write, but also listen and speaking. cultural literacy itself reflects the practice of critical thinking manifested through reading and writing activities. Moment This, literacy has develop become understanding which comprehensive about use Language in various forms and social contexts (Cahyani et al., 2024). Interest is an internal drive that make someone does something voluntary activities. In the context of reading, interest is the drive that drives someone to seek information and enjoy the process of reading. A strong interest in reading can increase reading frequency and perception of the benefits of the activity. the. The elements which compile interest read covers enjoyment, frequency, and perception benefit from reading (Budiman, 2022). The active presence of teachers in learning is very important in achieving learning success. Teachers do not only sued For convey material, but Also awaken interest student, which very influence learning outcomes. Because students' interests can vary and change, teachers need to continuously strive to develop them (Ramadhanti et al., 2023). In the study (Dasor et al., 2022), teachers act as role models, motivators, facilitators, resource providers, and reward and punishment providers, all of which are crucial in creating a culture of literacy in schools.

Digital Literacy

Literacy digital is part from progress literacy which in line with development technology. According to (Safitri et al., 2020), digital literacy includes the ability to understand various digital content. Initially, literacy was understood as limited to the ability to read and write, but now covers skills in using language in various media and context social. Literacy digital No only about skill technical, but Also covers skills cognitive, social, and emotional skills needed to interact wisely in the digital world. Digital literacy skills are now a crucial competency for students. Unfortunately, uncontrolled use of digital media and the internet can have negative impacts, particularly on the morals of children and adolescents in Indonesia supervision from person old make student prone to access information which no worthy. By because that, teachers, especially civics teachers, have a major responsibility in guiding students to develop digital literacy. The main objective activity literacy digital in school is form character student century 21st. This can done through instructional Media like watch show educative in beginning lesson, or through education character which given from an early age in the family and school environment. The character developed includes values such as caring, discipline, and honesty (Syafiqo Ahlah & Melianah, 2020; Annisa & Anggraeni, 2021). Character education in civics lessons also realized through the insertion of these values in the syllabus and lesson plans (Regi & Anggraeni, 2021).

Conclusion

This discussion shows that the role of teachers in literacy, both traditional and digital, is crucial in improving the quality of education. Teachers serve not only as instructors but also as facilitators, motivator, dynamist, counselor, and evaluator which can influence interest read and character development student. Through approach which interactive, support motivational, as well as creation environment study which safe and fun, teachers can push student to be more active in read and develop literacy they. Teachers also have a significant responsibility in guiding students to access and utilize information wisely, especially in today's digital age. Digital literacy is an equally important skill, and teachers must provide guidance so that students are not only skilled in using technology but also critical in managing available information. Character building through sound literacy education is also key to producing students who are not only academically skilled but also possess strong moral values. So, role Teacher in build culture literacy in school very important for support development academic and character development of students, both in the context of conventional literacy and digital literacy.

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