

Analysis of The Effect of The 'Kahoot' Quiz Method on Student Enthusiasm

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Abstract

Purpose - This study aims to analyze the effect of Kahoot application-based quisis method on students' enthusiasm in participating in Islamic Religious Education and Cultivation (PAIBP) lessons in class 12 AKL 3 SMK Bhakti Praja Adiwerna, Tegal. The Kahoot quiz method was chosen because of its ability to increase student interaction and engagement.

Design/Methodology/Approach - The research method used was quantitative with an experimental design. The study population consisted of 30 students, and data was collected through a questionnaire that measured the level of student enthusiasm before and after the application of the Kahoot method. Data analysis was conducted using descriptive statistics and t-test to determine significant differences in student enthusiasm.

Findings - The results showed that there was a significant increase in students' enthusiasm after the application of the Kahoot method, with the average enthusiasm score increasing from 65 before the application to 85 afterwards. This finding indicates that the use of Kahoot quiz method can be an effective alternative in increasing students' enthusiasm in EAP learning.

Originality/Value - This research is expected to contribute to the development of more interesting and interactive learning methods in schools.

Keywords: Quisis Method, Learning Motivation, Student Enthusiasm

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I. INTRODUCTION

Education is one of the main pillars in developing human resources in the modern era. In the context of education, students' enthusiasm for attending lessons greatly influences their learning outcomes. According to Purwadi in Zainiyati (2017: 2), learning media is an essential element that teachers must consider when designing a learning process. Therefore, there is a need for dynamic teaching approaches that can adapt to the evolving needs of students, such as utilizing interactive application-based learning media like Kahoot.

One innovative method in education that has gained attention is the use of interactive quiz platforms like Kahoot. This method not only creates a fun learning atmosphere but also actively engages students in the teaching-learning process. Kahoot quizzes are interactive tools for creating and playing online quizzes. In this context, "quiz" refers to a game-based quiz format that allows users to create questions and answers and invite participants to join. Contestants can answer questions using their own devices, such as smartphones or computers, and are scored based on speed and accuracy. Kahoot is often used in teaching to enhance student participation and simplify the learning process.

The teaching of Islamic Religious Education and Character Building (PABP) aims to shape students' character and moral values. In this context, using Kahoot as an evaluation and interactive learning tool is highly relevant. Kahoot fosters a fun learning environment and supports active student engagement. With quizzes specifically designed for PABP topics, students are encouraged to critically reflect on the moral and religious values being taught. Additionally, Kahoot allows teachers to provide immediate feedback, helping students grasp difficult concepts. According to (Sulistiani 2016),

Madrasah (Sulistiani 2016), learning media play a significant role in achieving desired learning objectives, which leads to improved student outcomes. Meanwhile, (Sudjana 2010) concluded that learning outcomes are the skills students acquire after their learning experiences.

Integrating Kahoot into PABP lessons not only strengthens students' understanding of the material but also develops social and collaboration skills, as students often work in groups to answer questions. Thus, Kahoot is not merely an evaluation tool but an effective means of supporting holistic and character-based learning.

The integration of Kahoot into PABP lessons creates a dynamic and engaging learning experience. PABP aims to instill moral and ethical values, and this quiz platform strongly supports these objectives. Through Kahoot, students actively participate in the learning process rather than passively receiving information. The quizzes, containing questions about religious teachings and ethical principles, encourage students to think critically and reflect on their understanding of the values being taught.

Kahoot also provides instant feedback, enabling students to identify their strengths and weaknesses in understanding the material. Moreover, the competitive element in Kahoot can motivate students to participate and perform better. Group activities often associated with Kahoot foster cooperation among students, build mutual respect, and encourage discussions about relevant values.

In this approach, Kahoot! serves not only as an evaluation tool but also as a learning medium that encourages students to understand and internalize religious and ethical values in their daily lives. Additionally, the platform helps create an inclusive learning environment where every student has the opportunity to contribute and learn from one another. Thus, the use of Kahoot! in PABP lessons can significantly impact students' character development positively.

The subject of Islamic Religious Education and Character Building (PABP) at the vocational high school level, particularly in Grade 12 AKL 3 at SMK Bhakti Praja Adiwerna Tegal, requires students' interest and attention to ensure the material is well understood. However, a common challenge for educators is fostering enthusiasm among students, which tends to decline over time. In this context, employing quiz-based methods through Kahoot is considered an effective solution to rekindle student interest.

This study aims to analyze the impact of implementing the Kahoot quiz method on students' enthusiasm for participating in PABP lessons. Using a quantitative approach, this research seeks to provide a clear picture of how significantly the Kahoot method influences students' attitudes and motivation in class. Through this analysis, the findings are expected to contribute positively to the development of more effective and engaging teaching methods while offering a better understanding of the learning dynamics at the vocational high school level.

II. METHOD

This study employs a quantitative approach with an experimental research design to analyze the impact of the Kahoot quiz method on student enthusiasm in Islamic Religious Education and Character Building (PABP) lessons for Grade 12 AKL 3 at SMK Bhakti Praja Adiwerna, Tegal. The following are the details of the research methodology used:

The population of this study consists of all students in Grade 12 AKL 3 at SMK Bhakti Praja Adiwerna, Tegal. From this population, a random sample of 30 students was selected to participate in the research. The sampling was conducted using a simple random sampling technique to ensure that every student had an equal chance of being included in the study.

The instrument used in this study is an experimental questionnaire designed to measure student enthusiasm for PABP lessons. According to Syafiyatul Mafruhah in (Zuriah, 2019), the experimental method is a structured, logical approach with a high level of accuracy in observing research conditions. In experimental research, the researcher can also manipulate the treatment of the objects being studied, known as experimental treatment.

The questionnaire consists of several indicators, such as motivation, active engagement, and student responses to learning using the Kahoot quiz method. Before being used to collect data, the questionnaire will undergo validity and reliability testing to ensure its accuracy and consistency.

III. RESULT AND DISCUSSION

A. Result

After implementing the Kahoot quiz method over six PABP lessons, data were collected through questionnaires completed by students before and after applying the method. The analysis revealed the following results:

The average student enthusiasm score before implementing the Kahoot method was 65 out of 100, indicating a moderate level of engagement with room for improvement. Following the use of the Kahoot method, the average score increased to 85, demonstrating a significant rise in student engagement and motivation. This improvement can be attributed to the interactive and enjoyable nature of Kahoot quizzes, which made the learning process more engaging and fun for students, thus fostering greater enthusiasm for the lessons.

A two-sample test yielded a p-value of 0.001, which is smaller than the significance level of $\alpha = 0.05$. This result indicates a statistically significant difference in student enthusiasm before and after the implementation of the Kahoot quiz method.

B. Discussion

The research findings indicate that the application of the Kahoot quiz method has a positive and significant impact on students' enthusiasm for participating in PABP lessons. The increase in enthusiasm scores from 65 to 85 suggests that this method successfully captured students' interest and enhanced their engagement in the learning process. Several factors contribute to this improvement in student enthusiasm:

The Kahoot method provides an interactive and enjoyable learning experience, allowing students to engage directly with the material. The game-based quizzes create a fun, competitive atmosphere that motivates students to participate more actively. Additionally, scoring in Kahoot quizzes is based on the speed and accuracy of responses, which helps students optimize their quick thinking and precision. The highest scores are achieved by answering questions both accurately and quickly.

Kahoot! is not only effective as a classroom teaching tool but also serves as a resource for homework, offering students the opportunity to learn independently. According to (Ilmiyah and Sumbawati 2019), one of the ICT tools that can effectively engage students and boost their interest in learning is Kahoot. By using this platform, students can access quizzes and learning materials from home, allowing them to set their own learning pace. The use of Kahoot! for homework also encourages students to take responsibility for their learning, as they must actively explore and understand the material without direct guidance from their teacher. This approach not only builds their confidence in mastering the subject matter but also helps them develop essential skills in time management and study discipline, which are crucial in the educational process. Consequently, Kahoot! contributes to shaping students into more independent and responsible learners.

Kahoot! is a learning platform that accommodates various learning styles—visual, auditory, and kinesthetic—through an inclusive approach. Its visually appealing and interactive elements, including game quizzes, enable users to create customized quizzes that energize the classroom and make learning more engaging (Khabidin 2019). For students with visual learning preferences, Kahoot!'s graphics, images, and animations make information easier to understand. Meanwhile, auditory learners benefit from the accompanying sounds and explanations that reinforce their comprehension of the material. Additionally, kinesthetic learners can actively participate through direct interaction, such as using mobile devices or physical gestures to answer questions.

This combination of features ensures that students with diverse learning styles can explore the material in ways that best suit them, thereby enhancing learning effectiveness and fostering deeper engagement. As a result, Kahoot! not only creates an inclusive learning environment but also motivates students to learn more enthusiastically.

Conducting periodic quizzes is an effective strategy to help students review previously learned material, which in turn strengthens their memory and aids in mastering concepts. By scheduling quizzes regularly, students are given the opportunity to revisit and reflect on information they have previously studied. This repetition not only deepens their understanding but also enhances long-term memory retention, as knowledge reviewed periodically is easier to recall. Additionally, these quizzes enable students to self-assess their understanding and identify areas where they may still struggle. As a result, they can focus more on topics that require further exploration. This approach not only builds students' confidence as they observe their progress in mastering the material but also fosters positive study habits and discipline. Overall, periodic quizzes play a vital role in reinforcing the learning process and provide a solid foundation for students to achieve academic success.

Regularly repeated quizzes have proven highly effective in helping students retain information better, as repetition plays a crucial role in memory consolidation. By frequently encountering questions similar to or related to the material they have studied, students not only strengthen the neural connections associated with that information but also boost their confidence when facing academic challenges. This process of repetition creates a sense of familiarity with the content, making students better prepared when taking exams or engaging in more in-depth discussions about the taught topics. When students

feel more prepared, they are more motivated to participate in class and share their thoughts, ultimately creating a more dynamic and interactive learning environment. Thus, holding quizzes routinely serves not only as an evaluation tool but also as a critical means of equipping students with solid knowledge and critical thinking skills essential for success both academically and beyond.

Kahoot! offers significant flexibility for teachers to design quizzes tailored to the specific needs of their class, taking into account the diversity among students. With this platform, educators can easily adapt quiz questions and content to reflect values and principles relevant to the students' local or cultural context. Often, educators aim to minimize the burden in the teaching-learning process. This is supported by findings from (Assyidiq 2015), which revealed that students often dislike Islamic education lessons because teachers deliver the material monotonously, leading to poor comprehension among students.

This adaptability is crucial because establishing a connection between the learning material and students' daily experiences can enhance their interest and motivation in learning. For example, a teacher might incorporate examples related to local traditions, ongoing social issues, or familiar readings encountered by students. Through this approach, students not only learn about theories but also understand how these concepts apply to their real lives. Furthermore, contextual adjustments help students feel valued and recognized in the learning process, ultimately encouraging active participation and more meaningful class discussions.

Thus, Kahoot! functions not only as a tool for assessing understanding but also as a bridge linking education with the world beyond the classroom.

A well-designed quiz plays a much larger role than simply testing students' memory; it also serves as a tool to encourage critical and analytical thinking. When faced with such quizzes, students are not only challenged to recall facts but are also expected to analyze complex situations, consider multiple perspectives, and apply ethical values in specific contexts. This pushes them to delve deeper into the material and understand how the theories and concepts they learn can be applied to real-life situations. For instance, through quizzes that include case studies or practical scenarios, students are trained to make wise and ethical decisions while honing their problem-solving skills in a constructive way. Therefore, the learning process focuses not just on academic mastery but also on developing students' character and critical thinking skills, which are vital for their future success. Effective quizzes, thus, become an important means of integrating cognitive learning with character development, creating students who are not only academically intelligent but also ethical and competitive.

Group activities in Kahoot! provide a valuable opportunity for students to collaborate in answering questions, creating a learning environment that fosters social interaction and teamwork. In this collaborative atmosphere, students learn to listen to each other, exchange ideas, and solve problems collectively, which is crucial for developing strong social skills. Through the discussions and dialogues that occur during the process of answering questions, students are taught to appreciate the opinions and perspectives of their peers, even if they differ from their own. This not only enriches their learning experience but also instills essential values, such as tolerance, empathy, and mutual respect. Group activities in Kahoot! thus function not only as an evaluation tool but also as a medium for building students' character and interpersonal skills, preparing them to become individuals who can contribute positively to society. In this way, Kahoot! supports the development of skills that integrate both academic and social values needed in everyday life.

Active participation in quizzes not only increases student engagement but also helps them feel more confident in their knowledge. When students commit to participating in quizzes, they have the opportunity to apply what they've learned in an enjoyable and competitive context. The victories or progress they achieve during the game give them a positive boost, especially for students who may feel less confident academically. This positive experience serves as a strong motivator, encouraging students to keep learning and improving their skills. When they experience success, even in the form of a game, their perception of their abilities can change. They begin to realize that they are capable of understanding and applying the concepts taught, which in turn builds a deeper sense of self-confidence. Moreover, the competitive atmosphere created by the quiz can spark enthusiasm and openness to contribute more actively in class, fostering a positive cycle that builds motivation and confidence continuously. Thus, participation in quizzes not only contributes to cognitive learning but also serves as the foundation for students' personal and emotional development.

The results of the quizzes held in class provide teachers with valuable insights into areas that need further emphasis in the learning process. By analyzing quiz outcomes, teachers can identify patterns in student understanding, including which areas they have mastered and which still pose difficulties. This information is crucial as it allows teachers to adjust their teaching to better meet the needs of the students. For example, if quiz results show that most students are struggling to understand a particular

concept, the teacher can redesign the teaching strategy, provide additional explanations, or use different methodologies, such as project-based learning or group discussions. This approach ensures that every student receives the support they need to achieve a deeper and more effective understanding. Moreover, these adjustments create opportunities for students to become more actively engaged in the learning process, as they feel the material being taught is relevant and aligned with their level of understanding. Therefore, quiz results not only function as an evaluation tool but also serve as a guide to improve the quality of teaching and the learning outcomes for students.

Using Kahoot! in the learning process helps prepare students to face an increasingly digital and connected world. In an environment dominated by technology, the ability to use digital tools effectively has become a highly valuable skill. By introducing Kahoot! as an interactive quiz platform, students learn to use technology in a positive and constructive manner, enabling them to actively participate in the learning process. This experience not only makes learning more enjoyable and engaging but also prepares students to adapt to various digital tools and applications they will encounter in both academic and professional settings in the future. Furthermore, using Kahoot! teaches students how to collaborate online, communicate with peers, and build important social skills in the digital era. By integrating technology into learning, students not only gain academic knowledge but also acquire the relevant skills needed to succeed in a world that is increasingly dependent on technology. Therefore, Kahoot! plays a crucial role in equipping students with the knowledge and skills that will help them thrive in a challenging digital society.

Kahoot! is not only effective in a classroom setting but can also be utilized as a tool for homework assignments, providing students with the opportunity to learn independently outside school hours. By using Kahoot! as a homework tool, students can answer questions and complete quizzes in an environment that is comfortable for them, supporting more flexible learning. This not only allows them to review and reinforce their understanding of the material but also encourages a sense of responsibility for their own learning. When students are faced with tasks that require independent study, they learn to manage their time, set personal goals, and motivate themselves to complete those tasks. This process develops essential learning skills such as discipline, time management, and initiative. Additionally, when students can track their progress through the Kahoot! platform, they gain a sense of achievement and boost their self-confidence, allowing them to continue progressing. Therefore, using Kahoot! for homework not only sharpens academic skills but also equips students with life skills that are essential for their future.

Kahoot! is a learning tool that strongly supports various learning styles, including visual, auditory, and kinesthetic, which differ among students. By incorporating engaging visual elements, such as graphics, images, and colorful designs, this platform captures the attention of students with visual learning styles and helps them understand information in a more intuitive way. Meanwhile, for auditory learners, Kahoot! provides opportunities to listen to questions and participate in group discussions during the quiz, enriching their learning experience through verbal interactions. On the other hand, kinesthetic learners can actively engage with the game, responding quickly to questions and even moving while participating in the quiz sessions, making their learning more dynamic and enjoyable. By creating an interactive and inclusive atmosphere, Kahoot! enables all students, regardless of their learning style, to engage with the material effectively and deeply. This not only enhances their understanding of the topics but also helps build their self-confidence and motivation to learn more. Thus, Kahoot! is not just an evaluation tool but also a platform that embraces the diversity of learning styles and facilitates a more holistic and comprehensive educational experience.

Through questions related to religious values and ethics, students are encouraged to reflect on and discuss ethical and moral actions that are relevant to everyday life. Such interactions not only prompt students to think critically about the decisions they make but also help them understand the consequences of those actions within social and spiritual contexts. Discussions about these values allow students to share perspectives and personal experiences, enriching their understanding and fostering empathy toward others' viewpoints. By actively engaging in dialogue regarding moral issues, students are trained to recognize and value the importance of integrity, honesty, and responsibility, which are crucial components in character development. Activities like these have a profound impact on building a strong moral foundation, preparing students to be individuals who are not only academically intelligent but also capable of making wise and ethical decisions when faced with life challenges. Thus, through an approach that integrates religious and ethical values into learning, the educational process focuses not only on cognitive aspects but also plays a role in shaping the character and integrity of students as responsible and civilized members of society.

The use of technology in learning provides variety in teaching methods. Students who usually find conventional teaching methods boring become more interested when learning through Kahoot!, which

makes the learning process more dynamic. This learning game also trains students' focus and enhances their memory retention.

In conclusion, the implementation of the Kahoot! quiz method in the PABP lesson for class 12 AKL 3 at SMK Bhakti Praja Adiwerna Tegal not only boosts student enthusiasm but also proves to be an engaging and effective learning model. This study suggests that teachers should continue to explore and utilize technology in the learning process and integrate similar methods into other subjects to enhance the quality of education in the SMK environment.

IV. CONCLUSION

Based on the results of the research, it can be concluded that the implementation of the Kahoot quiz method significantly increased student enthusiasm in participating in Islamic Education and Character Education (PABP) lessons in class 12 AKL 3 at SMK Bhakti Praja Adiwerna Tegal. This demonstrates that interest involves effort and attention in obtaining something from the object of interest, and students, in the learning process, follow their interest in the lesson (Mukhlis, 2022).

Although gamification offers much potential, its implementation faces several challenges, such as teacher readiness, resource limitations, and the need to adapt the curriculum. To address these challenges, training and support for teachers are necessary to ensure that gamification is applied effectively. Additionally, further studies are required to explore the most effective gamification strategies and techniques for enhancing student motivation in various educational contexts in Indonesia (M. Mahmubi 2024).

The improvement in student enthusiasm scores from an average of 65 before the method's implementation to 85 after its application indicates that the Kahoot method successfully created an interactive and engaging learning environment. The t-test results show that this difference is significant, indicating that the Kahoot quiz method is effective in increasing student engagement and motivation.

Therefore, it is recommended that teachers and educators consider the use of innovative methods like Kahoot in the learning process, not only for PABP lessons but also for other subjects, in order to create a more enjoyable and effective learning experience for students. In conclusion, interest is the liking or attraction that students have in learning, which they desire to achieve their goals (Rosalina 2020). The integration of technology in education can be an important step toward improving the quality of learning at the vocational school level.

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