



Analysis of Quantum Teaching Model on Student's Learning Outcomes

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Abstract

The Quantum Teaching Model is one approach learning innovative designed to improve motivation and results Study participant. This study aims to analyze the influence of the Quantum Teaching model on results Study participant based on review literature. The research method used is review literature with collect data from various source trusted like a journal scientific, theses, and dissertations. Research results show that the Quantum Teaching model has influence positive and significant to results Study participant educate in various eye lessons. These findings indicate that the Quantum Teaching model can be alternative effective learning models to improve quality education.

INTRODUCTION

Increase quality education is one of objective major in the world of education. One of factor important in achieving this purpose is with implementing effective learning models (Hotimah, 2020; Nurhuda, 2022) . The Quantum Teaching Model is one of the learning models innovative designed to improve motivation and results Study participant educate (Widiyono, A. 2021).

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In reality, Islamic Religious Education teachers in learning limited to the use of appropriate models, media that are appropriate need participant educate (Dewantara et al., 2020) , while seen from substance the material , Islamic Religious Education learning has so far had weakness common in improving quality education (Zain & Pratiwi, 2021) , required the presence of media, models and involvement participant educate actively for development think in a way critical (Wijayanti & Christian Relmasira, 2019) .

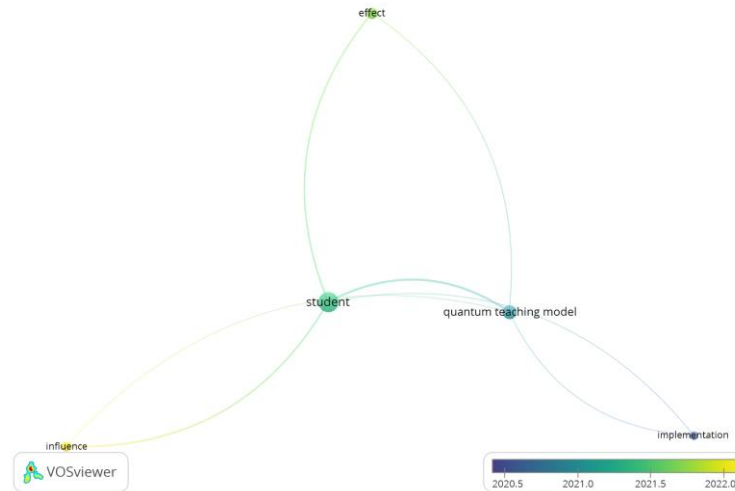


Figure 1: This visualization shows the relationship between several keywords that frequently appear together in the scientific literature. The keywords shown are "student," "effect," "quantum teaching model," "implementation," and "influence."

Choosing the right model influential to success of learning process teaching in class (Kistian, 2019) . Teachers must be able to choose the appropriate learning model. with level development participant educate (Khasanah & Darsinah, 2022) . Teachers must also own skills in designing, developing and managing system learning so that teachers are able create effective , exciting and fun learning activities learning must interesting , challenging and can enveloped skills think participant educate, and involving participant educate actively involved in activities learning (Fitriyani et al., 2021) .

Framework learning the Quantum Teaching Model frequently called as TANDUR is an abbreviation from the words Grow, Experience, Name , Demonstrate, Repeat, and Celebrate (Awalyah et al., 2023; Ashif Az Zafi & Falasifah, 2018) .

Framework This learning can make participant educate become happy and more interested in something lessons and can also confirm that participant educate experiencing the learning process (Syaparuddin et al., 2020) among them practice and make Contents lesson real for participant educate itself. Concerning with matter Therefore, one of the learning models chosen and implemented by the researcher is a Quantum Teaching learning model.

Learning model *Quantum Teaching* is one of forms of learning models used in the world of education in Indonesia. *Quantum Teaching* or learning *Quantum* is a learning model used by teachers to improve understanding and expected able to stimulate creativity participant educate so that later participant students can learn and not feel

hampered in learning models This *quantum* tends to use media and methods certain in facilitating the way learning (Widihartanto & Sujarwo, 2023) .

The Quantum Teaching method is a learning process with provide background and strategies to improve the learning process teach become fun. Quantum Teaching learning includes instructions for creating environment effective learning, designing teaching, conveying content and facilitate the learning process (Wita & Ummami, 2021) . This method provides A style empowering teaching participant educate to achieve more than is considered maybe. Also helps teachers expand skills students and motivation students, so that teachers will to obtain greater satisfaction from his work. Quantum. This model combines various principles and techniques learning that focuses on the active involvement of participants education, fun learning , and development skills think critical (Harmono, 2017) .

METHODS

This research uses method review literature to analyze the influence of the Quantum Teaching model on results Study participant educate (Saputra et al., 2022; Faj et al., 2018) . Data were collected from various source trusted like a journal scientific, theses, and dissertations. Keywords used for searching literature is "Quantum Teaching", " results learn ", " participants educate ", and " education " . Then, it was carried out analysis on the data obtained to identify patterns and findings research related to the influence of the Quantum Teaching model on results Study participant educate (Apriyadi et al., 2024) .

The steps in the LSR method include: 1. Identification Topic: Researcher identify Topic specific research, 2. Search Literature: Researchers conducted a search relevant literature through online databases and other accessible sources. 3. Selection Literature: Researchers evaluate literature found and made a selection based on criteria inclusion and exclusion that have established. Relevant and quality literature tall selected for inclusion in the analysis, 4. Analysis Literature: Researchers read and analyze selected literature with careful, 5. Synthesis and Interpretation: Researchers synthesize and interpret findings from literature analyzed. The information obtained used to compose conclusions that can answer research questions, 6. Writing Report: Researcher compile report research that includes introduction, review literature, analysis findings, and conclusions. Benefits of research with The SLR method is capable identify, review, evaluate, and interpret all available research with focus topic on phenomenon certain interesting (Rozak, 2023) .

RESULT AND DISCUSSION

Based on results review literature, found that the Quantum Teaching model has influence positive and significant to results Study participant educated in various eye lessons. Some study show that this model can improve results Study participant educate in the eyes lesson science, mathematics, language, natural sciences and social sciences (Wote yeniverawati et al., 2020; Lestari & Hudaya, 2018; Anggara & Rakimahwati, 2021) . These findings indicate that the Quantum Teaching model can be alternative effective learning models to improve quality education.

Influence positive towards the Quantum Teaching model results Study participant education can be associated with a number of factors, including:

1. Increase motivation Study participant students : Using the Quantum Teaching Model various technique interesting and enjoyable learning , so that it can improve motivation Study participant educate (Malik et al., 2019; Cahyo et al., 2020) .
2. Increase active participation and involvement of participants Educate : This model encourages participant educate to be actively involved in the learning process , thereby increasing understanding and power absorb them into Learning materials (Sultan & Hajerina, 2020; Putri & Supardi, 2023) .
3. Develop skills think critical : The Quantum Teaching Model encourages participant educate to think critical and analytical in solving problems and taking decisions decision (Sultan & Hajerina, 2020) .
4. Create atmosphere conducive learning : This model creates atmosphere conducive and positive learning , so that participants educate feel comfortable and safe for learning (Nurfadilah & Nurachadijat, 2023; Hardani & Nashikhah, 2023) .

The Quantum Teaching Model represents approach learning innovative that brings influence positive significant to results Study participant educated. Its effectiveness can be observed from various aspects, including:

1. Improvement Motivation Continuous Learning
Quantum Teaching presents method interesting and fun learning , far from impression monotonous and boring (Mustakim et al., 2023) . This is proven with various research that shows improvement motivation significant learning for participants students who follow learning with this model.
Use technique varied and creative learning, such as games educational, simulation, discussion groups, and projects Study independent, capable to awaken passion and enthusiasm Study participant educate (Rimah Dani et al., 2023) . Participant Educate no longer feels burdened with the learning process, but actively involved and enjoy every activity learning (Nisa & Qohar, 2020) .
2. Improve Participation and Active Involvement of Students
The Quantum Teaching model not only focuses on the transfer of information, but also emphasizes the active involvement of participants. educate in the learning process (Anandari et al., 2024) . Teachers play a role as facilitator who helps participant educate explore knowledge and develop their curiosity (Nurishlah et al., 2023) .
Learner - centered learning This education encourages them to be more active in asking questions, discussing, solving problems, and working on assignments. project (Sunita et al., 2019) . This active involvement is significant increase understanding and power absorb participant educate to subject matter (Fazriansyah, 2023) .
3. Develop Skills Think Critical and Problem Solving
Quantum Teaching not only provides participant educate with knowledge , but also train them to think critical and analytical (Liska et al., 2021) (Ahmad Muzaqi et al., 2021) . This model is encouraging participant educate to solve problems, take decisions, and evaluate information in a way independent (Anggara & Rakimahwati, 2021) . Use various method learning, such as

discussions, debates, and projects research, training ability think critical and problem solving participants educate (Ahmad Muzaqi et al., 2021) . This equips them with essential skills to deal with various challenges in life.

4. Creating Atmosphere Conducive and Positive Learning

Quantum Teaching creates environment safe, open and supportive learning for participant educated. environment conducive learning is environment study at school in an atmosphere the learning process is ongoing teach (Jumrawarsi & Suhaili, 2021) .

Teacher builds positive relationship with participant educate , so that they feel comfortable to ask questions , express opinions , and create error (Adiyono et al., 2022) . Atmosphere This conducive learning allows participant educate to learn without fear and develop their self- confidence (Arianti , 2017) . This model also encourages collaboration and cooperation between participant educate , so that they can help each other help and learn One each other (Wardani, 2023) .

5. Significantly Improve Learning Outcomes

Based on various research , the application of the Quantum Teaching model shows results better learning than with method learning traditional (Purba, 2021) . Participants students who follow learning with this model shows improvement understanding and mastery material lessons , as well as capable apply knowledge in life real (Putra et al., 2018) . This shows that Quantum Teaching is an effective learning model to improve quality education.

So, the author can conclude influence positive towards the Quantum Teaching model results Study participant education is not just limited to improvement score tests, but also includes development various aspect important, such as motivation learning, active participation, skills think critical, and character positive. This model offers approach holistic and participant - centered learning educate, so that it can help them achieve potential Study in a way maximum and become learner throughout life.

CONCLUSION

Based on results review literature, it can be concluded that the Quantum Teaching model has influence positive and significant to results Study participant educated in various Subject. This model can be alternative effective learning models to improve quality education. Therefore, it is necessary to do further research to develop and apply the Quantum Teaching model more widely in various educational level.

REFERENCES

- Adiyono, A. ... Rusanti, R. (2022). The Role of Teachers in Overcoming Bullying Behavior. *Al-Madrasah: Journal of Elementary Madrasah Education* , 6 (3), 649–658.
- Ahmad Muzaqi ... Sutopo, A. (2021). Increasing Student Learning Motivation through Tutoring during the Covid-19 Pandemic. *Scientific Journal of Campus Teaching* , 1 (2), 70–77.
- Anandari, AR ... Pada, A. (2024). Application of Quantum Teaching Learning Model to Improve Elementary School Students' Mathematics Learning Activities and

- Outcomes. *Research in the Mathematical and Natural Sciences* , 4 (2), 1–7.
- Anggara, A., & Rakimahwati, R. (2021). The Influence of the Quantum Learning Model on Student Activities and Learning Outcomes in Thematic Learning in Elementary Schools. *Basicedu Journal* , 5 (5), 3020–3026.
- Apriyadi, H. ... Safi'i, I. (2024). Utilization of Quantum Teaching in Indonesian Language Learning: Analysis of Research Productivity Assisted by Publish Or Perish. *Onoma Journal: Education, Language, and Literature* , 10 (1), 906–914.
- Arianti. (2017). The Urgency of a Conducive Learning Environment in Encouraging Students to Learn Actively. *Education: Journal of Social Humanities and Education* , 11 (1), 41–62.
- Awalyah, I. ... Rachmah, H. (2023). Implementation of the Quantum Teaching Learning Model in the Subject of Islamic Religious Education on the Material of Sunnah Fasting at Sdit Fitrah Insani 2, ... Regency. *Bandung Conference Series: Islamic ...* , 3 (2), 726–731.
- Dewantara, AH ... Harnida. (2020). Teacher Creativity in Utilizing IT-Based Media Reviewed from Students' Learning Styles. *Journal of Primary Education* , 1 (1), 15–28.
- Fazriansyah, MF (2023). The Effectiveness of the Discovery Learning Model on Students' Mathematical Communication Skills. *Realistic Mathematics Scientific Journal (JI-MR)* , 4 (2), 275–283.
- Fitriyani, Y. ... Sari, MZ (2021). Developing Teacher Creativity in Creative Learning in Social Studies Subjects in Elementary Schools. *Journal of Education: Journal of Research Results and Literature Reviews in the Field of Education, Teaching and Learning* , 7 (1), 97–109.
- Harmono, S. (2017). The Influence of Quantum Learning Model and Learning Style on Conceptual Understanding and Movement Skills in Physical Education, Sports and Health Subjects of High School Students in Kediri City. *Journal of Sports Learning* , 3 (1), 103–114.
- Hotimah, H. (2020). Application of Problem Based Learning Method in Improving Storytelling Skills in Elementary School Students. *EDUCATIONAL JOURNAL* , 7 (3), 5–11.
- Jumrawarsi, J., & Suhaili, N. (2021). The Role of a Teacher in Creating a Conducive Learning Environment. *Encyclopedia of Education Review* , 2 (3), 50–54.
- Khasanah, SU, & Darsinah. (2022). Implementation of Project-Based Learning in the Psychomotor Development of Elementary School Age Students. *Flobamorata Elementary Education Journal* , 3 (1), 281–287.
- Kistian, A. (2019). Implementation of Problem Based Learning (PBL) Learning Model in Improving Learning Outcomes of Grade IV Students of Ujong Tanjong Elementary School, West Aceh Regency. *Genta Mulia: Scientific Journal of Education* , 10 (1), 92–104.
- Lestari, P., & Hudaya, A. (2018). Implementation of Quantum Teaching Model as an Effort to Improve Student Learning Outcomes in Social Studies Subjects of Class VIII SMP PGRI 3 Jakarta. *Research and Development Journal of Education* , 5 (1), 45.

- Liska ... Yanti, Rini Agustin Eka. (2021). Application of Problem Solving Learning Model to Improve Students' Critical Thinking Skills. *Journal of Teacher Training and Education* , 2 (3), 161–170.
- Malik, S. ... Rusnayati, H. (2019). Improving Students' Computational Thinking Skills through Interactive Multimedia Based on Quantum Teaching and Learning Model. *International Journal of Computer Science Education in Schools* , 8 , 41.
- Mustakim, A. ... Darmayanti, R. (2023). Quantum Teaching Model: To Improve Mathematics Learning Outcomes of MTs Students. *Journal of Classroom Action Research* , 1 (1), 06–10. <https://doi.org/10.61650/jptk.v1i1.54>
- Nisa, ARZ, & Qohar, A. (2020). Application of Gallery Walk Learning Model on Linear Program Material for Prospective Teacher Students. *Journal of Mathematics Learning Studies VOLUME* , 4 (1), 1–6.
- Nurfadilah, K., & Nurachadijat, K. (2023). The Role of Quantum Learning in Improving Student Motivation and Learning Achievement at MA AL-Istiqomah, Sukabumi City. *Journal of Innovation, Evaluation and Learning Development (JIEPP)* , 3 (1), 22–28.
- Nurishlah, L. ... Nurlaila, A. (2023). Literature Study of Curiosity Measurement of Elementary School Students in Laesti. *Murabbi Journal* , 2 (1), 31–41.
- Purba, TN (2021). Implementation of the Quantum Teaching Method to Improve Mathematics Learning Outcomes in Junior High School Students. *Alifmatika: Journal of Mathematics Education and Learning* , 3 (1), 45–54.
- Putra, A. ... Zulfah, Z. (2018). Validity of Student Worksheets Based on Guided Discovery in an Effort to Improve Concept Understanding and Mathematical Reasoning Skills. *Edumatika: Journal of Mathematics Education Research* , 1 (2), 56.
- RimahDani, DE ... Nurlaeli, N. (2023). Variation of Learning Methods and Media in Teaching and Learning Activities. *Al-Madrasah: Journal of Elementary Madrasah Education* , 7 (1), 372–379.
- Rozak, A. (2023). Analysis of the Role of Islamic Religious Education Teachers in Forming the Religious Character of Grade VII Students at Mts Negeri 01 Pamulang Tangerang Selatan School: Literature Study and Review (LSR) Method Approach. *El Banar: Journal of Education and Teaching* , 6 (1), 1–8.
- Saputra, R. ... Pasaribu, E. (2022). The Influence of the Quantum Teaching Learning Model on Student Learning Outcomes in Thematic Theme 2 Always Save Energy Subtheme 1 Energy Sources Class IV of Simalungun State Elementary School. *PEDAGOGIKA: Journal of Pedagogy and Educational Dynamics* , 10 (2), 95–103.
- Sultan, L., & Hajerina, H. (2020). Application of Quantum Learning Model to Improve Learning Outcomes of Class VII A Students of Mts. Alkhairaat Biromaru on Social Arithmetic Material. *Guru Tua: Journal of Education and Learning* , 3 (1), 7–20.
- Sunita, NW ... Lesdyantari, E. (2019). The Influence of Project Based Learning Model on Students' Interest in Learning and Mathematics Learning Outcomes. *Widyadari* , 20 (1), 127–145.
- Syaparuddin ... Elihami. (2020). Active Learning Strategies in Improving Students' Motivation to Learn Civics. *Mabaguru: Journal of Elementary School Teacher Education*

- , 1 (1), 30–41.
- Wardani, DAW (2023). Problem Based Learning: Opening Opportunities for Collaboration and Student Skill Development. *Journal of Research and Quality Assurance* , 4 (1), 356–363.
- Widihartanto, P. Cahya, & Sujarwo. (2023). The Impact of Using Quantum Teaching on Learning in Social Studies Subjects. *Journal of Social Science Education* , 15 (1), 1–6.
- Wijayanti, W., & Christian Relmasira, S. (2019). Development of Science PowerPoint Media for Grade IV Students of Samirano Elementary School. *Journal of Educational Research and Development* , 3 (2), 77–83.
- Wita, S., & Ummami, W. (2021). The Role of Character-Based Teaching Materials in Population and Environmental Education Learning at the College Level. *Basicedu Journal* , 5 (5), 3755–3764.
- Wote yeniverawati, A. ... Kitong. O. Ekselris. (2020). The Effectiveness of Using the Quantum Teaching Model in Improving Science Learning Outcomes. *Journal of Education Technology* , 4 (2), 96–102.
- Zain, AA, & Pratiwi, W. (2021). Analysis of the Needs for Developing Interactive Powerpoint Media as a Thematic Learning Media for Grade V *Elementary School* , 8 (1), 75–81.

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