

Innovative Journal of Curriculum and Educational Technology

9 (2) (2020): 87-93



https://journal.unnes.ac.id/sju/index.php/ujet/article/view/

The Effectiveness of Project-Based Learning Model and Talking stickType of Cooperative Learning Model on the Quran-Hadith Subject Learning Outcomes

Farchatin Ulya^{1⊠}, Achmad Rifai RC², Sri Sulistyorini²

¹ IAIN Kudus, Indonesia ² Pascasarjana, Universitas Negeri Semarang, Indonesia

Article Info

Abstract

History Articles Received: June 2020 Accepted: July 2020 Published: November 2020

Keywords: Learning outcomes, Project-based learning, Talking stick

In the Quran-Hadith learning activities, teachers still make use of conventional methods so that students do not achieve optimal results. Therefore, teachers, as managers in a learning process, are required to be creative in order to make their students learn more actively. This study aims to analyze the differences in learning outcomes gained by students treated using project-based learning model and talking sticktype of cooperative learning model withlevels of abilityand interaction as moderating variables. This study used a quantitative method throughan experimental approach using 2x2 factorial design. The results found there are differences in students' learning outcomes using projectbased learning model and talking sticktype of cooperative learning model with a significance value of 0,000; there were differences in learning outcomes between students with high ability and those with low ability with a significancevalue of 0.002; an interaction between the learning models and the students' ability levels on their learning outcomes with a significance value of 0.011. The implication of this study is to provide teachers with direct experiences in examining the learning models and it can be used by teachers in selecting the proper learning model in improving the learning activity process.

Correspondence address:

IAIN Kudus, Indonesia

Jalan Conge Meembal Peio PO BOX 51, Kudus, Jav

Jalan Conge Ngembal Rejo PO BOX 51, Kudus, Jawa Tengah,

In done sia

E-mail: farchatinaja@gmail.com

p-ISSN 2252-6404 e-ISSN 2502-4515

INTRODUCTION

Learningis a tool to achieve educational goals (Yasin, 2011). The teacher is a determining factor in the successful implementation of education (Bhakti, 2016). Teachers occupy a strategic position in the learning process, so they are demanded to have excellent competences in their field (Darimi, 2015). According to the new paradigm, not only do theyserve as teachers, but also as educators, motivators, facilitators, guides, and evaluators of the teaching and learning process (Langgulung, 1988; 86). The key to the success of education is in teachers' hands because theyget involved directly in the learning activities. Therefore, they must manage an active learning process so that the educational goals are optimally achieved.

Based on an observation of the Quran-Hadith learning process at MI NU Banat Kudus, the learning methods used in the fourth grade are still teacher-centered, so that students' learning outcomes are not optimally achieved. therefore, teachers are required always to make innovations in their learning activities. In the 2013 curriculum, one of the recommended learning models is project-based learning model (Permendikbud No. 22 2016). Project-based learning (PjBL) is a learning model which involves students in a project, based on a certain problem (Lisminingsih, 2010). Wati, W (2017) in her research resultsstated that pjbl can improve speaking skills. inline with the research conducted by Saifullah (2018); Fauzia (2017) and Rahman (2019) saying that PjBL can develop students' soft skills and improve the quality of their learning outcomes. Strengthened by Sundari's research results, (2016); Rohana, R. S (2017); and Aprianti, N. P (2017) claiming that project-based learning model can increase students' learning outcomes.

Another learning model, which also allows students to develop their knowledge actively is cooperative learning. It can improve students' cognitive abilities by making them activelearners (Tsui-Er Lee, 2014). One of the cooperative learning types istalking stick. The procedure of which is done with an assist of

stick, where the person holding the stick must provide an answer to the questiongiven by the teacher after they finished learning the material (jahring et al., 2017). According to wardana (2016) and Khadijah (2015), *talking stick*does not only train students to speak, but alsocreate alearning atmosphere which is fun, creative and active in the classroom. The research conducted by Asri, B. W., Nurhalim, K., & Suhandini, P. (2018); Novida, I (2016); Alfiyana, R (2018); Asnawan, A (2019) shows that talking sticktype of cooperative learning model can improve students' learning outcomes.

In view of the exploration results on the learning accomplishment using venture-based learning and talking stickkind of helpful learning model, it is demonstrated that both can make a lovely learning climate in the classroom, cause understudies to adapt effectively, improve their delicate abilities, and increment their learning accomplishment. Meanwhile, students' learning outcomes in the **Quran-Hadith** subject ibtidaiyah (MI)areaffected by atmadrasah various factors, including individual student, including his/her levels of understanding, situation, condition, and events occurring in the environment. Another factor isindividual teachers, including the choice of learning models (Sinambela, 2008).

This study is different from the previous ones; the learning activities carried out in the Fourth Grade of MI NU Banat Kudus is still conventional. It also causes students to achieve unsatisfactory learning results. Thus, a teacher must be innovative in managing and selecting a particular learning model according to subject and students' criteria. The learning models that can improve students' learning outcomes are project-based learning and talking sticktype of cooperative learning model.

This study aims to compare the use of project-based learning model and talking sticktype of cooperative learning model in terms of students' learning outcomes, the learning outcomes of students with high ability and those with low ability as well as the interaction between the two learning models and their ability levels on their learning outcomes.

METHODS

This study using quantitative method, throughan experimental approach with 2x2 factorial design (Creswell, 2012). The dependent variable is learning outcomes of the Ouran-Hadith subject, affected by the independent variables, namely, project-based learning model andtalking sticktype of cooperative learning model, and students' ability levels: high and low based on class-ranking as the moderating variables. The population is the Fourth Grade students of Islamic Elementary School (MI) NU Banat Kudus, of which classescomprise of IV A, IV B, and IV C. The sampling was conducted usingsimple randomsampling method, in which class IV B as the first control group, and IV C class as the second control group. A multiple choice test comprising of 25 items and a documentation study on class-ranking were administered as the data collection techniques. Meanwhile, the data analysis technique used was the two way anova test. The validity and reliability tests of the research instruments used _ SPSS 15.0.

RESULTS AND DISCUSSION

The project-based learning model was applied in class IV B in the Quran-Hadith subject learning with the topic "Let us get to know sura Al-'Adiyat." Before starting the activity using a project-based learning model, the teacher conveyed the learning objectives. The students were asked to create a tajwid (elocution of the Quran recitation) gallery according to the topic being studied. The procedurescarried out were: determining a project; designing the project to be created, that is,tajwid gallery creation; arranging the project implementation schedule; completing the project by the teacher's monitoring; presentingthe result of the project, and evaluating the process and result of the project.

Meanwhile, the students in class IV C were treated using talking sticktype of cooperative learning model with the same topic given in class IV B. The teacher divided them into six groups and prepared a stick. After

that,she presented an outline of the material to be studied. The students were then allowed to discuss it ingroups,talking about the material together. Furthermore, she started rolling the stick from one student to another, accompanied by the sound of music. When she said 'stop,' the student holding the stick gota question from her and answered it. Eventually,she evaluated and, together with the students, formulated a conclusion.

The Differencesin Learning Outcomes by Using Project-Based Learning Model and Talking stickType of Cooperative Learning Model

The *two way*ANOVA testing results using SPPS 15.0, can be seen in the following table:

Table 1. The Result of Two Way AnovaTest

Source	F	Sig.
Learning Models	13.996	0.000
Levels of Ability	10.648	0.002
Learning Models *	6.836	0.011
Levels of Ability		

Table 2. Learning outcomes using project-based learning and talking sticktype of cooperative learning model

	Learning Models	
		Talking stick
Explanation	Project-Based	Type of
	Learning	Cooperative
		Learning
Min	68	64
Max	100	88
Mean	82.16	75.89
Std. Deviation	8.773	7.313

Based on table 2, the average score of project-based learning is higher than that of talking sticktype of cooperative learning model. Likewise, in the two way ANOVA test (table 1), a sig. The value of 0.000 was obtained at a significance level of 0.05. This shows that there were significant differences in learning outcomes between the students who were treated using the project-based learning model and those using talking sticktype of cooperative learning model.

According to research conducted by Saifullah, A. (2018) stating that project-based learning can improve the quality of students' learning outcomes in Islamic Educationsubject and result in a positive response from students. This is strengthened by the research results proposed by Susilowati et al. (2013), asserting that the project-based learning model canhave an effect on students' learning outcomes. A research conducted by Sugito (2018) concludes that the talking stickmethod can improve the learning outcomes of fifth-grade students of an elementary school on Islamic Education subjectwith the topic 'The God's Apostles.' Similar research results by Saihu (2020); Surbakti (2018);Hanafy (2019)suggest thattalking sticktype improve can achievement of learning outcomes.

The results of this study strengthenthe previous researches that both learning models improve students' learning outcomes; however, this study suggests that the grouptreated using a project-based learning model obtains better results. This model affects classroom learning and is useful in improving the students' learning outcomes. In practice, the students were assigned the task of making a tajwid gallery, which turns out to develop their understanding and potentials.

The Differences in Learning Outcomes Between the Students with High and Low Ability

From the research result, the following table is presented:

Table 3. The Learning Outcomes of Students with High and Low Ability

Explanation	Levels of Ability		
	High	Low	
Min	64	64	
Max	100	92	
Mean	81.89	76.32	
Std. Deviation	8.789	7.623	

Based on table 3, students with high abilities got higher average scores than those with low abilities. As well as in table 1, a sig value of 0.002 was obtained at a significant level

of 0.05. This shows significant differences in learning outcomes between students with the ability and those with low ability.

These different learning outcomes occur because in the implementation of learning, the process of which isaffected by a hereditary factorwhich lies within the individual student, namely, the student's abilitylevel. The learning outcomes which the studentachieves can be affected by both internal and external factors (Sudjana, 2006, p. 22). The former includes intelligencelevel, interest, skill, and motivation. Whereas, the latter includeslearning models, learning methods, and even environmental factors, which puts many effects on the learning outcomes achieved by students. A personwith good intelligence tends to find it easy to understand the material, and the results also tend to be good. Conversely, a person with low intelligence tends to go through difficulties in learning, slow in thinking, so that their academic achievement is also low (Dalyono: 1997). This is also the following research conducted by Riyani (2012), stating that students' intelligence affects learning achievement with a coefficient value of 0.429. Also, Putra's research (2017) claims that intelligence positively affects learning outcomes in mathematics by 56.6%.

The Quran-Hadith learning action requires a profound seeing, so the understudies with a significant level of understanding think that it is more visible the learning materials with higher learning results than those with a low degree of capacity.

The Interaction Between Learning Models and Students' Level of Abilityon Learning Outcomes

Based on the test result in table 1, the sig. The valueof learning models with students' ability level obtained was 0.011, with a significance level of 0.05. This shows a significant interaction between the learning models and the students' abilitylevels on the students' learning outcomes.

This is because, in learning, the ability is not the only factor affecting the learning outcomes. At least two main factors affect the students' learning outcomes: the quality of learning and the students' characteristics. The first is an external factor that affects learning, including learning models, methods, and media. Meanwhile, the second is the internal factor, including levels of ability, learning motivation, learning style, thinking style, and creativity. Thus, these two factors cannot be ignored because they interactwith each other. This study is in line with previous research results explaining that the implementation of discovery learning models andtalking sticktype of cooperative learning has significanteffects on learning outcomes (Arifin, 2018).

Based on the study results and supported by severalprevious researchers' arguments, it can be concluded that the project-based learning model is more effective in improving students' learning outcomes. The differences in learning outcomes are also affected by the differences in the ability level of the fourth-grade students of MI NU Banat Kudus.

CONCLUSION

In light of the past section, that can be concluded that there are significant differences in students' learning outcomes using project-based learning model and those using talking sticktype of cooperative learning model; there are significant differences in learning outcomes between studentswith high abilityand those with low ability, and there is an interaction between learning models and students' abilitylevels ontheir learning outcomes.

REFERENCES

Alfiyana, R., Sukaesih, S., & Setiati, N. (2018).

Pengaruh model ARCS (Attention, Relevance, Confidence, Satisfaction) dengan metode talking stickterhadap motivasi dan hasil belajar siswa materi sistem pencernaan makanan. *Journal of Biology Education*, 7(2), 226-236.

DOI: https://doi.org/10.15294/jbe.v7i2.24287

Anggara, S. A. (2017). Penerapan Model *Project based learning* untuk Meningkatkan Kemampuan
Menulis Siswa. *Arabi: Journal of Arabic Studies*,

2(2), 186-196. http://dx.doi.org/10.24865/aias.v2i2.57

Aprianti, N. P. C. D., Negara, I. G. A. O., Ke, S. P. M., & Suadnyana, I. N. (2017). Pengaruh Model Project Based Learning Berbasis Outdoor Study Terhadap Hasil Belajar IPA Siswa Kelas V SD Gugus II Mengwi Badung Tahun Ajaran 2016/2017. MIMBAR PGSD Undiksha, 5(2).

DOI: http://dx.doi.org/10.23887/jipgsd.v5i2. 10738

Asnawan, A. (2019). Application of Learning The Kooperatif Tipe Talking stickdalam Belajar Al-Qur'an Siswa Madrasah Ibtidaiyyah (MI). *Auladuna :Jurnal Prodi Pendidikan Guru Madrasah Ibtidaiyah*, 1(1), 78-90. Retrieved from http://ejournal.inaifas.ac.id/index.php/auladuna/article/view/164

Asri, B. W., Nurhalim, K., & Suhandini, P. (2018). The Implementation of Talking stickModel Assisted by Audio-Visual Media Toward Positive Character and Learning Outcome. *Journal of Primary Education*, 8(2), 225-231. DOI https://doi.org/10.15294/jpe.v8i2.26487

Bhakti, C. P., & Maryani, I. (2017). Peran LPTK dalam Pengembangan Kompetensi Pedagogik Calon Guru. *JP (Jurnal Pendidikan): Teori dan Praktik*, *I*(2), 98-106.DOI: http://dx.doi.org/10.26740/ip.vln2.p98-106

Creswell, W. J. (2012). Research Design Pendekatan Kualitatif, Kuantitatif dan Mixed. Yogyakarta: Pustaka Pelajar

Darimi, I. (2015). Peningkatan Kompetensi Pedagogik Guru PAI dalam Pembelajaran. Jurnal MUDARRISUNA: Media Kajian Pendidikan Agama Islam, 5(2), 309-324.

DOI: http://dx.doi.org/10.22373/jm.v5i2.630 Dalyono, (1997). *Psikologi Pendidikan*. Jakarta: Rineka Cipta.

Fauzia, H., & Prastiti, S. D. (2017). The Implementation of Project-Based Learning to Improve the Learning Interest and Student Achievement. *Journal of Accounting and Business Education*, *1*(2), 161-178. http://journal.um.ac.id/index.php/jabe/article/view/8486

Hanafy, M. S. (2019). Pemanfaatan Bahan Ajar Pendidikan Agama Islam Berbasis Model Pembelajaran Kooperatif Tipe Talking stickUntuk Meningkatkan Hasil Belajar Peserta Didik Di Smpn 4 Binamu Jeneponto. *Inspiratif Pendidikan*, 8(1), 126-140. https://doi.org/10.24252/ip.y8i1.11332

- Jahring, J. Armiana, M.& Nasrum, A. (2017).

 Comparative Study of Mathematics Learning
 Students Outcomes Taught by cooperative
 Learning Model Teams Games Tournament
 Type (TGT) and Talking stickType (TS).

 Journal International of athematics Education,
 2(2),59-65.Retrieved
 - fromhttp://usnsi.com/index.php/JME/article/view/376
- Langgulung, Hasan. (1988). *Pendidikan Islam Menghadapi Abad 21*. Jakarta: Pustaka AlHusna.
- Lisminingsih. (2010). Pembelajaran Berbasis Proyek:
 Alternatif Model Pendidikan Lingkungan
 Hidup untuk Meningkatkan Kecakapan
 Hidup. *Jurnal Paradigma 15(30)*.
- Novida, I. (2016). Penerapan Model Talking stickuntuk Meningkatkan Hasil Belajar IPS Pada Materi Jasa dan Peranan Tokoh Pejuang dalam MemproklamasikanKemerdekaan Indonesia pada Siswa Kelas V SDNegeri 20 Meulaboh KabupatenAceh Barat. *Jurnal Bina Gogik*, 3(1), 1-14. Retrieved from http://eiournal.stkipbbm.ac.id/index.php/pgsd/article/view/23
- Peraturan Menteri Pendidikan Dan Kebudayaan Republik Indonesia Nomor 22 Tahun 2016 Tentang Standar Proses Pendidikan Dasar Dan Menengah.
- Putra, Z. H., & Sucitra, W. (2017).Hubungan Intelegensi dengan Hasil Belajar Matematika Siswa Kelas V SD Negeri 68 Pekanbaru. *Jurnal Pendidikan Matematika*, 2(2), 1-18. Retrieved from

https://jurnal.uin-

- antasari.ac.id/index.php/jpm/article/view/1
 171
- Rahman, M. S., & Kairupan, E. (2019).Implementasi Model Pembelajaran *Project based learning*Untuk Meningkatkan Keaktifan Belajar Siswa Pada Mata Pelajaran Al Qur'an dan Hadis. *Jurnal Ilmiah Iqra'*, 13(2), 15-40.DOI: http://dx.doi.org/10.30984/jii.v13i2.966
- Riyani, Y. (2015). Faktor-faktor yang mempengaruhi prestasi belajar mahasiswa. *Eksos*. 8(1). Retrieved from
- http://repositorv.polnep.ac.id/xmlui/handle/123456 789/354
- Rohana, R. S., & Wahyudin, D. (2017). Project Based Learning Untuk Meningkatkan Berpikir Kreatifsiswa SD Pada Materi Makanan Dan Kesehatan. *Jurnal Penelitian Pendidikan*, 16(3), 235-243.

- https://ejournal.upi.edu/index.php/JER/article/view/4817
- Saifullah, Aep. (2018). Implementasi Model Project Based Learning Untuk Mengembangkan Soft Skills Dan Kualitas Hasil Belajar Siswa. Jurnal Pendidikan Kewarganegaraan 5(2): 137-150.

DOI 10.32493/jpkn.v5i2.v2018.p137-150

- Saihu, S. (2020). The Effect of Using Talking stickLearning Model on Student Learning Outcomes in Islamic Primary School of Jamiatul Khair, Ciledug Tangerang. *Tarbawi: Jurnal Keilmuan Manajemen Pendidikan*, 6(01), 61-68.
- DOI: http://dx.doi.org/10.32678/tarbawi.v6i01.2325
 Sinambela, P. N. (2008). Faktor-Faktor Penentu Keefektifan Pembelajaran dalam Model Pembelajaran Berdasarkan Masalah (Problem Based Instruction). *Generasi Kampus*, *1*(2). https://jurnal.unimed.ac.id/2012/index.php/gk/article/view/6947/5946
- Sudjana, N. (2004). *Penilaian Proses Hasil Belajar Mengajar*. Bandung: PT Remaja Rosdakarya
- Sugito, S. (2018). Peningkatan Prestasi Belajar Materi Rasul-rasul Allah melalui Model Talking stickpada Siswa Kelas V SD. *Jurnal Pendidikan: Riset dan Konseptual*, 2(3), 281-286. https://doi.org/10.28926/riset_konseptual.v2i
 - https://doi.org/10.28926/riset_konseptual.v2
- Sundari, L., & Kartono, J. I. (2016). peningkatan Keterampilan Bereksperimen Menggunakan Model Project Based Learning (PjBL). Didaktika Dwija Indria, 4(12). http://www.jurnal.fkip.uns.ac.id/index.php/ pgsdsolo/article/view/8839
- Surbakti, K. (2018). Upaya meningkatkan hasil belajar pkn siswa dengan menggunakan model talking stickmateri sistem pemerintahan pusat. Jurnal tematik, 8(1), 166-171. DOI: https://doi.org/10.24114/it.v8i1.10386
- Susilowati., Aimah, S., & Wijayatiningsih, T. D. (2015). Fostering Students Motivation On Speaking Through Talking stickand Snowball Throwing Method. English Language and Literature International Conference (ELLiC) Proceedings, (1), 243:246. Retrieved from
- https://jurnal.unimus.ac.id/index.php/ELLIC/article/view/2612
- Tsui-Er Lee. (2014). Effects of a Cooperative Learning Strategy on the Effectiveness of Physical Fitness Teaching and Constraining Factors. *Mathematical Problems in Engineering*,1-5. Retrieved from
- https://doi.org/10.1155/2014/519291

- Wardana, L.W. (2016). Paper Airplane and Talking stickLearning Methods To Increase Students Understanding About Management Information System Courses. *IOSR Journal of Business and Management*, 18(9), 164-169.
- Wati, W. 2017.Project-Based Learning for Improving Motivation and Student's Speaking Ability in Arabic Teaching And Learning. *Proceeding International Conference on Islamic Education* (ICIED), 2(1), 461-466. Retrieved from
- http://conferences.uin-malang.ac.id/index.php/icied/article/view/5
- Yasin, A. F. (2012). Pengembangan Kompetensi Pedagogik guru pendidikan Agama islam di madrasah (studi kasus di MIN Malang I). el-Qudwah. http://eiournal.uin-malang.ac.id/index.php/lemlit/article/view/1942