



Students' Perceptions of Islam-Based Mathematics Learning

Alif Septriansyah¹, M. Imamuddin², Isnaniah², Azhar Jaafar³,
Suwannee Langputeh⁴, Voni Azira⁵

¹Teacher of Mathematics Senior High School 1 Sekayu South Sumatera, Indonesia

²Universitas Islam Negeri Sjech M. Djamil Djambek Bukittinggi, Indonesia

³UCYP University, Malaysia

⁴Prince of Songkhla University, Thailand

⁵Dumlupinar Universiti, Turkey

 m.imamuddin76@yahoo.co.id*

Abstract

Islamic-based mathematics learning is mathematics learning in an Islamic context. Learning mathematics in an Islamic context is expected for students to give more meaning to learning mathematics so that students are not afraid and negative suggestions do not arise. Good student perceptions of the teacher's teaching methods applied. This research uses qualitative descriptive research using purposive sampling techniques. The research subjects were class XII students at Senior High School 1 Sekayu West Sumatera Selatan. The instrument was a questionnaire based on Islamic aspects: religion, honesty, discipline, hard work, independence, curiosity, and communicativeness. Data were analyzed using descriptive statistical analysis. The results of the research show that a small number of students need the character to work hard in learning mathematics, which is caused by several factors, namely a lack of confidence in their abilities in learning mathematics and easily giving up on learning. Almost all students strongly agree with honesty because they understand that actions based on honesty will make them better and get the blessing of Allah SWT. The average percentage of students' perceptions regarding the application of Islamic values in mathematics learning is 69% of the students strongly agree with the application of Islamic values in class, 30%, almost half of the students agree with the application of Islamic values in class, and 1%, a small portion disagree with the application of Islamic values in class. Class on mathematics learning.

Article Information:

Received January 29, 2024

Revised February 29, 2024

Accepted March 31, 2024

Keywords: *Perception, Mathematics Learning, Islamic Based*

INTRODUCTION

Perception is important before carrying out an activity so that what is done is appropriate and profitable (Mazana et al., 2019; Parwati & Yono, 2022; Stahnke et al., 2016). Perception is one of the factors that can influence students' learning of mathematics. This is in line with Slameto's opinion, which states that perception can influence students' cognitive characteristics (Afari et al., 2013; Suratmi & Purnami, 2017). Mathematics plays an important role in everything in human life, so it can

How to cite: Septriansyah, A., Imamuddin, M., Isnaniah, A., Jaafar, A., Langputeh, S., & Azira, V. (2024). Students' Perceptions of Islam-Based Mathematics Learning. *Al-Hashif: Jurnal Pendidikan dan Pendidikan Islam*, 2(1), 41-55.

E-ISSN: 2988-5671

Published by: STAI Yayasan Tarbiyah Islamiyah (YASTIS) Lubuk Begalung Padang, Indonesia

greatly impact world progress. However, students tend to have a negative perception of mathematics learning (Hendriana, 2014; Heuvel-Panhuizen & M., & Drijvers, 2020; Joseph et al., 2019).

This tendency toward negative perceptions by students is shown by 80% of students who believe mathematics is an important learning method. However, mathematics is considered a subject that is difficult to understand (Carrillo-Yañez et al., 2018; Chen et al., 2016). Students who think mathematics is a difficult subject because previously students had negative suggestions and were afraid of mathematics itself. This negative suggestion is also accompanied by students not being able to participate in mathematics learning, resulting in laziness in learning mathematics (Aguilar, 2021; Kartika et al., 2021; Maloney et al., 2013). Based on these findings, it can be revealed that students' perception of mathematics is still a subject that is feared and difficult to understand or master (Deng et al., 2020).

One factor influencing students' perceptions of mathematics is students' needs for the material being studied (Fidalgo et al., 2020; Heswari & Patri, 2022; Sarah et al., 2021). Perceptions can be seen and measured through indicators of students' perceptions of mathematics learning. This is in line with what Siregar, (2022) said. Perception can be seen through indicators, namely fostering active attitudes, motivation, and independent learning attitudes in mathematics. It also improves understanding, presentation of material, class management, assessment, and access (Efendi & Sholeh, 2023; Scherer et al., 2016; Sebastian, 2022; H. M. Siregar et al., 2021). One of the ways students' needs for the material studied can be met is by linking mathematics lessons to students' real lives (close to students and recognized by students). One of them links mathematics lessons to students' real lives, namely mathematics learning that is linked to (based on) Islam (Imamuddin, 2022; Kurniati, 2016; Mansir, 2021; Sirait & Azis, 2017; Yustianingsih et al., 2017).

Islamic-based mathematics learning uses Islamic contexts, integrating learning with Islam (Abdillah et al., 2022; Imamuddin & Isnaniah, 2023; Novikasari & Ulpah, 2022). Mathematics learning that is contextual and integrates Islam and mathematics can be done in mosques as a medium and place of learning. By learning mathematics closer to students, it is hoped that students will give more meaning to mathematics learning so that students are not afraid and negative suggestions do not arise (Azzuhro & Salminawati, 2023; Imamuddin & Isnaniah, 2024; Sullivan et al., 2016).

Research related to student perceptions in learning mathematics, including research conducted by Wardana & Damayani (2018), found that students had good perceptions of the teacher's teaching methods. Teachers often gave practice on mathematics questions, had a high average mathematics score, and some factors influenced the learning environment, in this case, the characteristics of the teacher (Anggraeni et al., 2020; Durksen et al., 2017; Utari et al., 2019). Learning that is carried out well by teachers can increase their understanding of the material (Aslina et al., 2022; H. Siregar, 2022; Syah & Imamuddin, 2023). Adila & Harisah (2020), also conducted other research on the perceptions of class X MIPA students at Senior High School 1 Bojong regarding online learning in mathematics. They found that students' perceptions favored online learning over conventional learning, with a percentage of 77.2%. Students need help understanding online learning. Based on this description, the author is interested in researching "Students' Perceptions in Islamic-Based Mathematics Learning." This research is to enrich studies related to Islamic integrated mathematics learning (Gillett-Swan, 2017; Imron et al., 2022; Purwati et al., 2018; Sari et al., 2023).

METHOD

This research uses qualitative descriptive research to present data in words. This research provides a real picture of the research results (Bradshaw et al., 2017; Colorafi & Evans, 2016). Determining the research subjects using purposive sampling technique, the chosen subjects were class XII students at Senior High School 1 Sekayu because the researcher was a subject teacher in class XII at Senior High School 1 Sekayu (Campbell et al., 2020; Etikan et al., 2016). A questionnaire was used for data collection in this research. The questionnaire contained 13 statements prepared and developed based on Islamic aspects expected to emerge, including religious aspects, honesty, discipline, hard work, independence, curiosity, and communicativeness (Ikhrom et al., 2019). This questionnaire instrument was previously validated by 1 lecturer at the Mathematics Education Study Program at University Bukittinggi.

The data analysis used is in the form of processing the questionnaire results into percentages with a range of 0 - 100 with the following parameters:

- 0%: None
- 1% - 25%: Small portion
- 26% - 49%: Almost Half
- 50%: Half
- 51% - 75%: Mostly
- 76% - 99%: Almost all
- 100%: Completely

RESULT AND DISCUSSION

Religious

Table 1 shows the results of a questionnaire from 35 students in class VIII at Senior High School 1 Sekayu regarding the application of Islamic values to religious aspects in mathematics learning at Senior High School 1 Sekayu (Fahmi et al., 2021; Fuadi & Suyatno, 2020).

Table 1. Religious Aspects

No	Student Activities	Strongly Agree	Agree	Don't Agree	Strongly Disagree
1	Every beginning and end of mathematics learning is always accompanied by prayer.	18	16	1	0
	Percentage	51 %	46 %	3 %	0 %
	Criteria	Most of the	Nearly Half	Fraction	None
2	Giving greetings before and after expressing an opinion is recommended by Allah SWT.	24	11	0	0
	Percentage	69 %	31 %	0 %	0 %
	Criteria	Most of the	Nearly Half	None	No one

3	It is an obligation to be grateful for God's grace after studying mathematics.	23	12	0	0
Percentage		66 %	34 %	0 %	0 %
Criteria		Most of the	Nearly Half	None	No one
Average Percentage		62 %	37 %	1 %	0 %
Criteria		Most of the	Nearly Half	Fraction	None

Based on the table above, it can be seen that students' perceptions of the application of Islamic values in the religious aspect are in the strongly agree category at 62%, meaning that the majority of students strongly agree with the application of religion in mathematics learning: 37%, almost half of whom agree with the application of religion in learning mathematics, and 1%. A small portion disagreed with the application of religion in learning mathematics (Demirel Ucan & Wright, 2019; Giles et al., 2016).

Honesty

Table 2 shows the results of a questionnaire from 35 students in class VIII at Senior High School 1 Sekayu regarding the application of Islamic values to honesty in mathematics learning at Senior High School 1 Sekayu (Agusti et al., 2018; Fitriah & Kusnadi, 2022; Yustinaningrum et al., 2020).

Table 2. Aspects of Honesty

No	Student Activities	Strongly Agree	Agree	Don't Agree	Strongly Disagree
1	Being honest when taking exams, tests, and assignments is an act that pleases Allah.	27	8	0	0
Percentage		77 %	23 %	0 %	0 %
Criteria		Almost All	Fraction	None	None
2	Being honest when taking exams, tests, and assignments is an act that pleases Allah.	22	13	0	0
Percentage		63 %	37 %	0 %	0 %
Criteria		Most of the	Nearly Half	None	None
3	Reducing mistakes and reducing oneself in understanding mathematics learning must be shown to oneself.	23	12	0	0

Percentage	66 %	34 %	0 %	0 %
Criteria	Most of the	Nearly Half	None	None
Average Percentage	69 %	31 %	0 %	0 %
Criteria	Most of the	Nearly Half	Fraction	None

Based on the table above, it can be seen that students' perceptions of the application of Islamic values in the aspect of honesty in the strongly agree category are 69%, meaning that the majority of students strongly agree with the application of honesty in mathematics learning, 31% almost half of whom agree with the application of honesty. In mathematics learning (Akbari & Sahibzada, 2020; Crocco et al., 2016; Gayatri & Chew, 2013; Roach, 2014).

Discipline

Table 3 shows the results of a questionnaire from 35 students in class VIII at Senior High School 1 Sekayu regarding the application of Islamic values to the disciplinary aspect of mathematics learning at Senior High School 1 Sekayu (Istiqomah et al., 2018; Tambrin et al., 2021; Zulnaidi & Abd Rauf, 2024).

Table 3. Disciplinary Aspects

No	Student Activities	Strongly Agree	Agree	Don't Agree	Strongly Disagree
1	Students must make good use of time to learn mathematics.	17	18	0	0
	Percentage	49 %	51 %	0 %	0 %
	Criteria	Most of the	Nearly Half	None	None
2	Competing honestly and sportingly is an attitude that every student must have.	30	5	0	0
	Percentage	86 %	14 %	0 %	0 %
	Criteria	Most of the	Fraction	None	None
	Average Percentage	68 %	32 %	0 %	0 %
	Criteria	Most of the	Nearly Half	None	None

Based on the table above, it can be seen that students' perceptions of the application of Islamic values in the aspect of discipline in the strongly agree category are 68%, meaning that the majority of students strongly agree with the application of discipline in mathematics learning, 32% almost half of whom agree with the application of discipline. In mathematics learning (Hao, 2016; Tseng et al., 2013).

Hard Work

Table 4 shows the results of a questionnaire from 35 students in class VIII at Senior High School 1 Sekayu regarding the application of Islamic values to the

disciplinary aspect of mathematics learning at Senior High School 1 Sekayu (Yadav et al., 2014).

Table 4. Aspects of Hard Work

No	Student Activities	Strongly Agree	Agree	Don't Agree	Strongly Disagree
1	Every student must have the attitude of not giving up easily and continuing to try to solve math problems.	24	9	1	0
Average Percentage		69 %	26 %	3 %	0 %
Criteria		Most of the	Nearly Half	Fraction	None

Based on the table above, it can be seen that students' perceptions of the application of Islamic values in the aspect of hard work in the strongly agree category are 69%, meaning that the majority of students strongly agree with the application of hard work in learning mathematics 26%, almost half of whom agree. The application of hard work in learning mathematics, and 3% disagree (Brahimi & Sarirete, 2015; Love et al., 2014).

Independent

Table 5 shows the results of a questionnaire from 35 students in class VIII at Senior High School 1 Sekayu regarding the application of Islamic values to the independent aspect of mathematics learning at Senior High School 1 Sekayu (Ramadhani et al., 2019; Shodiq et al., 2017; Tan, 2014).

Table 5. Independent Aspects

No	Student Activities	Strongly Agree	Agree	Don't Agree	Strongly Disagree
1	Doing assignments independently in mathematics learning is an attitude that every student must have.	23	11	1	0
Percentage		66 %	31 %	3 %	0 %
Criteria		Most of the	Nearly Half	Fraction	None
2	Rechecking the answers before collecting them in mathematics learning is an attitude that students must have.	29	6	0	0
Percentage		83 %	17 %	0 %	0 %
Kriteria		Almost All	Fraction	None	None

Average Percentage	75 %	24 %	1 %	0 %
Criteria	Most of the	Fractio	Fraction	None
		n		

Based on the table above, students' perceptions of the application of Islamic values in the independent aspect for the strongly agree category are 75%, meaning that the majority of students strongly agree with the application of independence in mathematics learning, 24%. A small portion concurs with the application of work. Challenging in learning mathematics, and 1% disagree with independent application (Kurniasih et al., 2020; Lo & Hew, 2020; Zafrullah et al., 2024).

Curiosity

Table 6 shows the results of a questionnaire from 35 students in class VIII at Senior High School 1 Sekayu regarding the application of Islamic values to the curiosity aspect of mathematics learning at Senior High School 1 Sekayu (Ariningsih & Amalia, 2020; Suyatno et al., 2020).

Table 6. Aspects of Curiosity

No	Student Activities	Strongly Agree	Agree	Don't Agree	Strongly Disagree
1	Asking questions is a command from Allah SWT for every Muslim, and to do this when they do not understand or comprehend mathematics learning.	24	11	0	0
Average Percentage		69 %	31 %	0 %	0 %
Criteria		Most of the	Nearly Half	None	None

Based on the table above, it can be seen that students' perceptions of the application of Islamic values in the aspect of curiosity for the strongly agree category are 69%, meaning that the majority of students strongly agree with the independent application of mathematics learning, and 31%, almost half of them agree (Akbari & Sahibzada, 2020; Mazana et al., 2019; Utami & Cahyono, 2020).

Rewarding Achievement

Table 7 shows the results of a questionnaire from 35 students in class VIII at Senior High School 1 Sekayu regarding the application of Islamic values to the curiosity aspect of mathematics learning at Senior High School 1 Sekayu (Hayah, 2017; Pratiwi, 2019).

Table 7. Aspects of Rewarding Achievement

No	Student Activities	Strongly Agree	Agree	Don't Agree	Strongly Disagree
1	Respect your friends' opinions when discussing this, and do not differentiate between ethnicities when learning mathematics.	30	5	0	0

Average Percentage	86 %	14 %	0 %	0 %
Criteria	Almost All	Fraction	None	None

Based on the table above, students' perceptions of the application of Islamic values in the aspect of respect for achievement in the strongly agree category are 86%, meaning that almost all students strongly agree with the application of respect for achievement in mathematics learning, and 14% are a small number. Students agree on the application of rewarding achievement in mathematics learning (Clark, 2015; Hidayatullah & Csikos, 2024).

Students' perceptions of the application of Islamic values in mathematics learning at SMAN 1 Sekayu based on the results of the questionnaire given, it appears that the highest percentage is in the aspect of honesty, with a rate of 86% where almost all students strongly agree with the application of this aspect in class. In contrast, the lowest percentage of students who answered disagreed was 3% on the element of hard work. This indicates that teachers at SMAN 1 Sekayu must continue to strive to create a learning atmosphere that develops students' ability to work hard (Aldila & Rini, 2023; Mualim et al., 2023; Mulyanti & Nadrun, 2021). The overall score for the average percentage of student's perceptions of the application of Islamic values in mathematics learning is 69%; the majority of students strongly agree with the application of Islamic values in the classroom 30%, and almost half of the students agree with the application of Islamic values in the school (Chan & Wong, 2014; Wijayanto, 2020). Islam in class, and 1% of students do not agree with applying Islamic values in class in mathematics learning.

A small number of students need the character to work hard in learning mathematics, which is caused by several factors, namely a need for more self-confidence in their abilities to learn mathematics (Heri, 2019; Netson & Ain, 2022). Thus, they quickly give up on studying and doing the assignments given. However, almost all students strongly agree with honesty because they understand that actions based on honesty will make them better and get the blessing of Allah SWT (Yatim et al., 2023).

The results of this research strengthen the findings of research conducted by, which concluded that students were thrilled/agreed with using Islamic values in learning mathematics. Using Islamic values in mathematics learning can help students understand mathematical concepts more quickly (Choirunnisa et al., 2022; Kariadinata et al., 2019). Motivating students' learning, students become more interested in participating in mathematics learning. Integrating Islamic values in Mathematics learning is very important for educators to implement.

CONCLUSION

The conclusion that can be drawn from this research is that the average percentage of students' perceptions regarding the application of Islamic values in mathematics learning is 69%; most of the students strongly agree with the application of Islamic values in mathematics learning, 30%, almost half of the students. They agree with applying Islamic values in the classroom, and 1% of the students do not agree with applying Islamic values in mathematics learning at school. It is hoped that educators will always be innovative in implementing mathematics learning so that students are happy and motivated in learning mathematics. One way to learn mathematics that can be implemented is by integrating it with Islamic values.

REFERENCES

- Abdillah, A., Mastuti, A. G., Rijal, M., & Shuwaky, N. (2022). Islamic Integrated Information Communication Technology Mathematics Learning Model for Students' Creativity and Environmental Awareness. *JTAM (Jurnal Teori Dan Aplikasi Matematika)*, 6(1), 194–211. <https://doi.org/10.31764/jtam.v6i1.5755>
- Adila, K., & Harisah, Y. (2020). Persepsi Siswa Kelas x MIPA SMA Negeri 1 Bojong Terhadap Pembelajaran Online pada Pelajaran Matematika. *Seminar Nasional Pendidikan Matematika*, 1(1), 401–406.
- Afari, E., Aldridge, J. M., Fraser, B. J., & Khine, M. S. (2013). Students' Perceptions of the Learning Environment and Attitudes in Game-based Mathematics Classrooms. *Learning Environments Research*, 16, 131–150. <https://doi.org/10.1007/s10984-012-9122-6>
- Aguilar, J. J. (2021). High School Students' Reasons for disliking Mathematics: The Intersection Between Teacher's Role and Student's Emotions, Belief and Self-efficacy. *International Electronic Journal of Mathematics Education*, 16(3). <https://doi.org/10.29333/iejme/11294>
- Agusti, F. A., Zafirah, A., Engkizar, E., Anwar, F., Arifin, Z., & Syafril, S. (2018). The Implantation of Character Values Toward Students through Congkak Game for Mathematics Instructional Media. *Jurnal Penelitian Pendidikan*, 35(2), 132–142. <https://doi.org/10.15294/jpp.v35i2.13947>
- Akbari, O., & Sahibzada, J. (2020). Students' Self-Confidence and Its Impacts on Their Learning Process. *American International Journal of Social Science Research*, 5(1), 1–15. <https://doi.org/10.46281/aijssr.v5i1.462>
- Aldila, F. T., & Rini, E. F. S. (2023). Teacher's Strategy in Developing Practical Values of the 5th Pancasila Precepts in Thematic Learning in Elementary School. *Journal of Basic Education Research*, 4(1), 31–38. <https://doi.org/10.37251/jber.v4i1.301>
- Anggraeni, S. T., Muryaningsih, S., & Ernawati, A. (2020). Analisis Faktor Penyebab Kesulitan Belajar Matematika di Sekolah Dasar. *Jurnal Riset Pendidikan Dasar (JRPD)*, 1(1), 25–37. <https://doi.org/10.30595/v1i1.7929>
- Ariningsih, I., & Amalia, R. (2020). Membangun Karakter Siswa Melalui Pembelajaran Matematika yang Berintegrasi Keislaman. *Journal on Teacher Education*, 1(2), 1–8. <https://doi.org/10.31004/jote.v1i2.511>
- Aslina, R., Imamuddin, M., Isnaniah, I., & Rahmi, U. (2022). Persepsi Siswa Terhadap Metode Mengajar Guru Matematika Pada Era New Normal. *Suska Journal of Mathematics Education*, 8(2), 107–116. <https://doi.org/10.24014/sjme.v8i2.19510>
- Azzuhro, M., & Salminawati, S. (2023). Integration of Mathematics Learning with Islamic Values in Elementary Schools. *Scaffolding: Jurnal Pendidikan Islam Dan Multikulturalisme*, 5(2), 397–413. <https://doi.org/10.37680/scaffolding.v5i2.3000>
- Bradshaw, C., Atkinson, S., & Doody, O. (2017). Employing A Qualitative Description Approach In Health Care Research. *Global Qualitative Nursing Research*, 4, 2333393617742282. <https://doi.org/10.1177/2333393617742282>
- Brahimi, T., & Sarirete, A. (2015). Learning Outside The Classroom Through MOOCs. *Computers in Human Behavior*, 51, 604–609. <https://doi.org/10.1016/j.chb.2015.03.013>
- Campbell, S., Greenwood, M., Prior, S., Shearer, T., Walkem, K., Young, S., & Walker, K. (2020). Purposive Sampling: Complex or Simple? Research Case Examples. *Research Case Examples. Journal of Research in Nursing*, 25(8), 652–661. <https://doi.org/10.1177/1744987120927206>

- Carrillo-Yañez, J., Climent, N., Montes, M., Contreras, L. C., Flores-Medrano, E., Escudero-Ávila, D., & Muñoz-Catalán, M. C. (2018). The Mathematics Teacher's Specialised Knowledge (MTSK) Model. *Research in Mathematics Education*, 20(3), 236–253. <https://doi.org/10.1080/14794802.2018.1479981>
- Chan, Y. C., & Wong, N. Y. (2014). Worldviews, Religions, and Beliefs About Teaching And Learning: Perception of Mathematics Teachers with Different Religious Backgrounds. *Educational Studies in Mathematics*, 87, 251–277. <https://doi.org/10.1007/s10649-014-9555-1>
- Chen, S. C., Yang, S. J., & Hsiao, C. C. (2016). Exploring Student Perceptions, Learning Outcome and Gender Differences in A Flipped Mathematics Course. *British Journal of Educational Technology*, 47(6), 1096–1112. <https://doi.org/10.1111/bjet.12278>
- Choirunnisa, A., Nurhanurawati, N., Dahlan, S., Choirudin, C., & Anwar, M. S. (2022). Development of Islamic Value-Based Mathematics Teaching Materials to Improve Students' Understanding of Mathematical Concepts. *Jurnal Analisa*, 8(1), 11–20. <https://doi.org/10.15575/ja.v8i1.17073>
- Clark, K. R. (2015). The Effects of the Flipped Model of Instruction on Student Engagement And Performance In the Secondary Mathematics Classroom. *Journal of Educators Online*, 12(1), 91–115. <https://doi.org/10.1016/j.edurev.2016.07.003>
- Colorafi, K. J., & Evans, B. (2016). Qualitative Descriptive Methods In Health Science Research. *HERD: Health Environments Research & Design Journal*, 9(4), 16–25. <https://doi.org/10.1177/1937586715614171>
- Crocco, F., Offenholley, K., & Hernandez, C. (2016). A Proof-Of-Concept Study of Game-Based Learning In Higher Education. *Simulation & Gaming*, 47(4), 403–422. <https://doi.org/10.1177/1046878116632484>
- Demirel Ucan, A., & Wright, A. (2019). Improving The Pedagogy of Islamic Religious Education Through An Application of Critical Religious Education, Variation Theory and the Learning Study Model. *British Journal of Religious Education*, 41(2), 202–217. <https://doi.org/10.1080/01416200.2018.1484695>
- Deng, L., Wu, S., Chen, Y., & Peng, Z. (2020). Digital Game-Based Learning In a Shanghai Primary-School Mathematics Class: A Case Study. *Journal of Computer Assisted Learning*, 36(5), 709–717. <https://doi.org/10.1111/jcal.12438>
- Durksen, T. L., Way, J., Bobis, J., Anderson, J., Skilling, K., & Martin, A. J. (2017). Motivation and Engagement In Mathematics: A Qualitative Framework for Teacher-Student Interactions. *Mathematics Education Research Journal*, 29, 163–181. <https://doi.org/10.1007/s13394-017-0199-1>
- Efendi, N., & Sholeh, M. I. (2023). Manajemen Pendidikan Dalam Meningkatkan Mutu Pembelajaran. *Academicus: Journal of Teaching and Learning*, 2(2), 68–85. <https://doi.org/10.59373/academicus.v2i2.25>
- Etikan, I., Musa, S. A., & Alkassim, R. S. (2016). Comparison of Convenience Sampling and Purposive Sampling. *American Journal of Theoretical and Applied Statistic*, 5(1), 1–4. <https://doi.org/10.11648/j.ajtas.20160501.11>
- Fahmi, A. N., Yusuf, M., & Muchtarom, M. (2021). Integration of Technology in Learning Activities: E-Module on Islamic Religious Education Learning for Vocational High School Students. *Journal of Education Technology*, 5(2), 282–290. <https://doi.org/10.23887/jet.v5i2.35313>
- Fidalgo, P., Thormann, J., Kulyk, O., & Lencastre, J. A. (2020). Students' Perceptions on Distance Education: A Multinational Study. *International Journal of Educational Technology in Higher Education*, 17, 1–18. [Al-Hashif: Jurnal Pendidikan dan Pendidikan Islam
Vol. 2, No. 1, hal. 41-55, 2024](https://doi.org/10.1186/s41239-020-</p></div><div data-bbox=)

00194-2

- Fitrah, M., & Kusnadi, D. (2022). Integrasi Nilai-Nilai Islam Dalam Membelajarkan Matematika Sebagai Bentuk Penguatan Karakter Peserta Didik. *Jurnal Eduscience (JES)*, 9(1), 152–167. <https://doi.org/10.36987/jes.v9i1.2550>
- Fuadi, A., & Suyatno, S. (2020). Integration of Nationalistic and Religious Values In Islamic Education: Study In Integrated Islamic School. *Randwick International of Social Science Journal*, 1(3), 555–570. <https://doi.org/10.47175/rissj.v1i3.108>
- Gayatri, G., & Chew, J. (2013). How do Muslim consumers perceive service quality? *Asia Pacific Journal of Marketing and Logistics*, 25(3), 472–490. <https://doi.org/10.1108/APJML-06-2012-0061>
- Giles, R. M., Byrd, K. O., & Bendolph, A. (2016). An Investigation of Elementary Preservice Teachers' Self-Efficacy for Teaching Mathematics. *Cogent Education*, 3(1), 1160523. <https://doi.org/10.1080/2331186X.2016.1160523>
- Gillett-Swan, J. (2017). The Challenges of Online Learning: Supporting and Engaging the Isolated Learner. *Journal of Learning Design*, 10(1), 20–30. <https://doi.org/10.5204/jld.v9i3.293>
- Hao, Y. (2016). Exploring Undergraduates' Perspectives and Flipped Learning Readiness in Their Flipped Classrooms. *Computers in Human Behavior*, 59, 82–92. <https://doi.org/10.1016/j.chb.2016.01.032>
- Hayah, R. K. (2017). Character Education in Islamic Boarding School and the Implication to Students' Attitude and Critical Thinking Skills on Biodiversity Learning. In *Journal of Physics: Conference Series*, 812(1), 012101. <https://doi.org/10.1088/1742-6596/812/1/012101>
- Hendriana, H. (2014). Membangun Kepercayaan Diri Siswa Melalui Pembelajaran Matematika Humanis. *Jurnal Pengajaran MIPA*, 19(1), 52–60. <https://doi.org/10.18269/jpmipa.v19i1.36152>
- Heri, T. (2019). Meningkatkan Motivasi Minat Belajar Siswa. *Rausyan Fiker: Jurnal Pemikiran Dan Pencerahan*, 15(1). <https://doi.org/10.31000/rf.v15i1.1369>
- Heswari, S., & Patri, S. F. D. (2022). Pengembangan Media Pembelajaran Matematika Berbasis Android Untuk Mengoptimalkan Kemampuan Berpikir Kreatif Siswa. *Jurnal Inovasi Penelitian*, 2(8), 2715–2722. <https://doi.org/10.47492/jip.v2i8.1151>
- Heuvel-Panhuizen, V. den, & M., & Drijvers, P. (2020). Realistic Mathematics Education. *Encyclopedia of Mathematics Education*, 713–717. https://doi.org/10.1007/978-3-030-15789-0_170
- Hidayatullah, A., & Csikos, C. (2024). The Role of Students' Beliefs, Parents' Educational Level, and The Mediating Role of Attitude and Motivation in Students' Mathematics Achievement 253-262. *The Asia-Pacific Education Researcher*, 33(2), 253–262. <https://doi.org/10.1007/s40299-023-00724-2>
- Ikhrom, I., Junaedi, M., & Ismail, A. (2019). Contribution Index of Madrasah Diniyah To the Character Education. *Analisa: Journal of Social Science and Religion*, 4(1), 141–163. <https://doi.org/10.18784/analisa.v4i01.713>
- Imamuddin, M. (2022). Merancang Model Pembelajaran Matematika Kontekstual Islami Berbasis Literasi. *Jurnal Ilmiah Pendidikan Matematika Al Qalasaki*, 6(1), 75–89. <https://doi.org/10.32505/qalasaki.v6i1.4132>
- Imamuddin, M., & Isnaniah, I. (2023). Peranan Integrasi Nilai-Nilai Islam dalam Pembelajaran Matematika. *Kaunia: Integration and Interconnection Islam and Science Journal*, 19(1), 15–21. <https://doi.org/10.14421/kaunia.3975>
- Imamuddin, M., & Isnaniah, I. (2024). Integration of Islam and Mathematics: Religious and Mathematics Education In Grand Mosque of West Sumatra. *AL-ISHLAH: Jurnal Pendidikan*, 16(2), 640–650.

- <https://doi.org/10.35445/alishlah.v16i2.4724>
- Imron, F., Isnaniah, I., & Imamuddin, M. (2022). Persepsi Siswa terhadap Pembelajaran Matematika yang Dilaksanakan secara Daring pada Masa Pandemi Covid-19 di SMK. *JURING (Journal for Research in Mathematics Learning)*, 5(2), 167–176. <https://doi.org/10.24014/juring.v5i2.16635>
- Istiqomah, R., Prasajo, L. D., & Arifa'i, A. M. (2018). Improving Senior High School Student's Creativity Using Discovery Learning Model In Islamic Senior High School 1 Jambi City. *European Journal of Multidisciplinary Studies*, 3(2), 108–115. <https://doi.org/10.26417/ejms.v7i2.p108-115>
- Joseph, N. M., Hailu, M. F., & Matthews, J. S. (2019). Normalizing Black Girls' Humanity in Mathematics Classrooms. *Harvard Educational Review*, 89(1), 132–155. <https://doi.org/10.17763/1943-5045-89.1.132>
- Kariadinata, R., Yaniawati, R. P., Sugilar, H., & Riyandani, D. (2019). Learning Motivation and Mathematical Understanding of Students of Islamic Junior High School Through Active Knowledge Sharing Strategy. *Infinity Journal*, 8(1), 31–42. <https://doi.org/10.22460/infinity.v8i1.p31-42>
- Kartika, R. W., Megawanti, P., & Hakim, A. R. (2021). Pengaruh Adversity Quotient dan Task Commitment Terhadap Kemampuan Pemecahan Masalah Matematika. *Jurnal Riset Pendidikan Matematika*, 8(2), 206–216. <https://doi.org/10.21831/jrpm.v8i2.36831>
- Kurniasih, S., Darwan, D., & Muchyidin, A. (2020). Menumbuhkan Kemandirian Belajar Matematika Siswa Melalui Mobile Learning Berbasis Android. *JEMS: Jurnal Edukasi Matematika Dan Sains*, 8(2), 140–149. <https://doi.org/10.25273/jems.v8i2.7041>
- Kurniati, A. (2016). Pengembangan Modul Matematika Berbasis Kontekstual Terintegrasi Ilmu Keislaman. *Al-Khwarizmi: Jurnal Pendidikan Matematika Dan Ilmu Pengetahuan Alam*, 4(1), 43–58. <https://doi.org/10.24256/jpmipa.v4i1.251>
- Lo, C. K., & Hew, K. F. (2020). A Comparison of Flipped Learning with Gamification, Traditional Learning, and Online Independent Study: The Effects On Students' Mathematics Achievement And Cognitive Engagement. *Interactive Learning Environments*, 28(4), 464–481. <https://doi.org/10.1080/10494820.2018.1541910>
- Love, B., Hodge, A., Grandgenett, N., & Swift, A. W. (2014). Student Learning and Perceptions In A Flipped Linear Algebra Course. *International Journal of Mathematical Education in Science and Technology*, 45(3), 317–324. <https://doi.org/10.1080/0020739X.2013.822582>
- Maloney, E. A., Schaeffer, M. W., & Beilock, S. L. (2013). Mathematics Anxiety and Stereotype Threat: Shared Mechanisms, Negative Consequences and Promising Interventions. *Research in Mathematics Education*, 15(2), 115–128. <https://doi.org/10.1080/14794802.2013.797744>
- Mansir, F. (2021). Interconnection of Religious Education and Modern Science in Islamic Religious Learning. *EDUKASI: Jurnal Pendidikan Islam (e-Journal)*, 9(2), 229–237. <https://doi.org/10.54956/edukasi.v9i2.37>
- Mazana, Y. M., Suero Montero, C., & Olifage, C. R. (2019). *Investigating Students' Attitude Towards Learning Mathematics*. <https://doi.org/10.29333/iejme/3997>
- Mualim, A., Srisulistiowati, D. B., Rejeki, S., & Anggiani, S. (2023). Developing Human Resource Management IN Increasing Sustainable Competitive Advantage IN SMAN 4 Bekasi Student. *JEMSI (Jurnal Ekonomi, Manajemen, Dan Akuntansi)*, 9(6), 2960–2970. <https://doi.org/10.35870/jemsi.v9i6.1873>
- Mulyanti, S., & Nadrun, N. (2021). Teachers' Strategies in Teaching Speaking at High

- School. *Journal of Foreign Language and Educational Research*, 4(2), 1–11. <https://doi.org/10.31934/jofler.v4i2.1673>
- Netson, B. P. H., & Ain, S. Q. (2022). Factors Causing Difficulty in Learning Mathematics for Elementary School Students. *International Journal of Elementary Education*, 6(1), 134–141. <https://doi.org/10.23887/ijee.v6i1.44714>
- Novikasari, I., & Ulpah, M. (2022). The Development of Islamic Context Learning Materials to Facilitate the Conceptual Understanding of Mathematics. *JTAM (Jurnal Teori Dan Aplikasi Matematika)*, 6(3), 488–497. <https://doi.org/10.31764/jtam.v6i3.8364>
- Parwati, K., & Yono, R. R. (2022). Hubungan Persepsi Siswa Pada Pembelajaran Online Terhadap Minat Belajar Masa Pandemi Covid-19. *Jurnal Ilmiah SEMANTIKA*, 4(01), 19–28. <https://doi.org/10.46772/semantika.v4i01.1102>
- Pratiwi, D. D. (2019). Pengembangan Bahan Ajar Aljabar Linier Berbasis Nilai-nilai Keislaman dengan Pendekatan Saintifik. *Desimal: Jurnal Matematika*, 2(2), 155–163. <https://doi.org/10.24042/djm.v2i2.4200>
- Purwati, N., Zubaidah, S., Corebima, A. D., & Mahanal, S. (2018). Increasing Islamic Junior High School Students Learning Outcomes through Integration of Science Learning and Islamic Values. *International Journal of Instruction*, 11(4), 841–854.
- Ramadhani, R., Umam, R., Abdurrahman, A., & Syazali, M. (2019). The Effect of Flipped-Problem Based Learning Model Integrated With LMS-Google Classroom for Senior High School Students. *Journal for the Education of Gifted Young Scientists*, 7(2), 137–158. <https://doi.org/10.17478/jegys.548350>
- Roach, T. (2014). Student Perceptions Toward Flipped Learning: New Methods To Increase Interaction and Active Learning In Economics. *International Review of Economics Education*, 17, 74–84. <https://doi.org/10.1016/j.iree.2014.08.003>
- Sarah, C., Karma, I. N., & Rosyidah, A. N. K. (2021). Identifikasi Faktor Yang Mempengaruhi Minat Belajar Siswa Pada Mata Pelajaran Matematika di Kelas V Gugus III Cakranegara. *Progres Pendidikan*, 2(1), 13–19. <https://doi.org/10.29303/prospek.v2i1.60>
- Sari, D. R., Imamuddin, M., & Financhi, W. (2023). Integration of Islamic Values in Mathematics Learning Using Models Discovery Learning in Junior High School. *Al-Hashif: Jurnal Pendidikan Dan Pendidikan Islam*, 1(2), 108–116.
- Scherer, R., Nilsen, T., & Jansen, M. (2016). Evaluating Individual Students' Perceptions of Instructional Quality: An Investigation of Their Factor Structure, Measurement Invariance, and Relations to Educational Outcomes. *Frontiers in Psychology*, 7, 110. <https://doi.org/10.3389/fpsyg.2016.00110>
- Sebastian, D. R. (2022). Pengaruh Persepsi Siswa Atas Lingkungan dan Kebiasaan Belajar Terhadap Prestasi Belajar Matematika. *Jurnal Inovasi Penelitian*, 3(2), 5055–5062. <https://doi.org/10.47492/jip.v3i2.1771>
- Shodiq, M., Suyata, S., & Wibawa, S. (2017). Developing Quality Evaluation Instrument for Islamic Senior High School. *Jurnal Penelitian Dan Evaluasi Pendidikan*, 21(2), 189–205. <https://doi.org/10.21831/pep.v21i2.15675>
- Sirait, A. R., & Azis, Z. (2017). The Realistic of Mathematic Educational Approach (RME) toward the Ability of the Mathematic Connection of Junior High School in Bukhari Muslim Medan. *American Journal of Educational Research*, 5(9), 984–989. <https://doi.org/10.12691/education-5-9-10>
- Siregar, H. (2022). Pengembangan Instrumen Angket Persepsi Mahasiswa Pendidikan Matematika Terhadap Pembelajaran Daring. *AKSIOMA: Jurnal Program Studi Pendidikan Matematika*, 11(2), 971. <https://doi.org/10.24127/ajpm.v11i2.4702>

- Siregar, H. M., Solfitri, T., & Siregar, S. N. (2021). The Relationship Between Perceptions of Online Learning and Self-Regulation of Mathematics Education Students. *Jurnal Didaktik Matematika*, 8(2), 208–221. <https://doi.org/10.24815/jdm.v8i2.21882>
- Stahnke, R., Schueler, S., & Roesken-Winter, B. (2016). Teachers' Perception, Interpretation, and Decision-Making: A Systematic Review of Empirical Mathematics Education Research. *Zdm*, 48, 1–27. <https://doi.org/10.1007/s11858-016-0775-y>
- Sullivan, P., Borcek, C., Walker, N., & Rennie, M. (2016). Exploring A Structure for Mathematics Lessons That Initiate Learning By Activating Cognition on Challenging Tasks. *The Journal of Mathematical Behavior*, 41, 159–170. <https://doi.org/10.1016/j.jmathb.2015.12.002>
- Suratmi, S., & Purnami, A. S. (2017). Pengaruh Strategi Metakognitif Terhadap Kemampuan Pemecahan Masalah Matematika Ditinjau Dari Persepsi Siswa Terhadap Pelajaran Matematika. *UNION: Jurnal Ilmiah Pendidikan Matematika*, 5(2), 183–194. <https://doi.org/10.30738/v5i2.1241>
- Suyatno, S., Hayati, F. N., & Wantini, W. (2020). Transmission of Islamic Values In Public School: A Study at State Senior High School 5 Yogyakarta. *Analisa: Journal of Social Science and Religion*, 5(1), 15–29. <https://doi.org/10.18784/analisa.v5i1.1039>
- Syah, R. M., & Imamuddin, M. (2023). Persepsi Siswa Tentang Keterampilan Dasar Mengajar Guru Matematika Pasca Pandemi Covid-19. *JUMAT: Jurnal Matematika*, 1(1), 1–11. <https://doi.org/10.53491/jumat.v1i1.496>
- Tambrin, M., Wasliman, I., Hanafiah, H., & Mudrikah, A. (2021). Implementation and Evaluation of Teachers' Performance Supervision At Madrasah Aliyah (Islamic Senior High School). *Journal of Education Research and Evaluation*, 5(4), 645–655. <https://doi.org/10.23887/jere.v5i4.32941>
- Tan, C. (2014). Educative Tradition and Islamic Schools in Indonesia. *Journal of Arabic and Islamic Studies*, 14, 47–62. <https://doi.org/10.5617/jais.4638>
- Tseng, K. H., Chang, C. C., Lou, S. J., & Chen, W. P. (2013). Attitudes Towards Science, Technology, Engineering and Mathematics (STEM) In A Project-Based Learning (PJBL) Environment. *International Journal of Technology and Design Education*, 23, 87–102. <https://doi.org/10.1007/s10798-011-9160-x>
- Utami, Y. P., & Cahyono, D. A. D. (2020). Study at Home: Analisis Kesulitan Belajar Matematika pada Proses Pembelajaran Daring. *Jurnal Ilmiah Matematika Realistik*, 1(1), 20–26. <https://doi.org/10.33365/ji-mr.v1i1.252>
- Utari, D. R., Wardana, M. Y. S., & Damayani, A. T. (2019). Analisis Kesulitan Belajar Matematika dalam Menyelesaikan Soal Cerita. *Jurnal Ilmiah Sekolah Dasar*, 3(4), 534–540. <https://doi.org/10.23887/jisd.v3i4.22311>
- Wardana, M. Y. S., & Damayani, A. T. (2018). Persepsi Siswa Terhadap Pembelajaran Pecahan Di Sekolah Dasar. *Mosharafa: Jurnal Pendidikan Matematika*, 6(3), 451–462. <https://doi.org/10.31980/mosharafa.v6i3.333>
- Wijayanto, M. E. (2020). The Integration of Islamic Values In Implementation of Learning English: Islamic Education Students Perspective. *ETERNAL (English, Teaching, Learning)*, 6(1), 18–30. <https://doi.org/10.24252/Eternal.V61.2020.A2>
- Yadav, A., Mayfield, C., Zhou, N., Hambrusch, S., & Korb, J. T. (2014). Computational Thinking In Elementary and Secondary Teacher Education. *ACM Transactions on Computing Education (TOCE)*, 14(1), 1–16. <https://doi.org/10.1145/2576872>
- Yatim, M., Syafe'i, I., & Amiruddin, A. (2023). Akhlaq Education Values in Islamic

- Perspective: An Examination from the Ulama's Books. *Journal of Advanced Islamic Educational Management*, 3(2), 39-52. *Journal of Advanced Islamic Educational Management*, 32(2), 39-52. <https://doi.org/10.24042/jaiem.v3i2.17302>
- Yustianingsih, R., Syarifuddin, H., & Yerizon, Y. (2017). Pengembangan Perangkat Pembelajaran Matematika Berbasis Problem Based Learning (PBL) Untuk Meningkatkan Kemampuan Pemecahan Masalah Peserta Didik Kelas VIII. *JNPM (Jurnal Nasional Pendidikan Matematika)*, 1(2), 258-274. <https://doi.org/10.33603/jnpm.v1i2.563>
- Yustinaningrum, B., Lubis, N. A., Gradini, E., Firmansyah, F., & Fitri, A. (2020). Integrasi Nilai Islami dengan Pendekatan Saintifik pada Pembelajaran Matematika di MTs Negeri 3 Aceh Tengah. *Journal of Medives: Journal of Mathematics Education IKIP Veteran Semarang*, 4(2), 205-214. <https://doi.org/10.31331/medivesveteran.v4i2.1031>
- Zafrullah, Z., Sultan, J., Ayuni, R. T., & Ulang, A. T. (2024). Analisis Kemandirian Belajar Matematika Siswa Berdasarkan Gender dan Aspek di Sekolah Menengah Atas. *Perspektif Pendidikan Dan Keguruan*, 15(1), 29-38. [https://doi.org/10.25299/perspektif.2024.vol15\(1\).16189](https://doi.org/10.25299/perspektif.2024.vol15(1).16189)
- Zulnaidi, H., & Abd Rauf, R. A. (2024). Mathematics Module Based on STEAM and Quranic Approach: A Study for Student's Perception. *Journal on Mathematics Education*, 15(2), 363-384. <https://doi.org/10.22342/jme.v15i2.pp363-384>

Copyright holder :

© Septriasyah, A., Imamuddin, M., Isnaniah, A., Jaafar, A., Langputeh, S., & Azira, V.

First publication right:

Al-Hashif: Jurnal Pendidikan dan Pendidikan Islam

This article is licensed under:

CC-BY-SA