

Learning Outcomes: How is the Experimentation of the AIR Learning Model?

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Article Info

Article History

Received: 2024-11-11 Revised: 2024-11-23 Published: 2025-01-09

Keywords:

Learning Outcomes; AIR Learning Model; SKI

Abstract

This study examines how the experimentation of the Auditory, Intellectually, Repetition (AIR) learning model impacts students' learning outcomes in the Islamic Cultural History (SKI) subject at MTs Negeri 1 Bandar Lampung. The research is motivated by students' learning outcomes that have not met the Minimum Competency Criteria (KKM), which may be due to limitations in teaching methods and the influence of other external factors. This study employs a quantitative approach, with the population consisting of all eighth-grade students. The sample includes class VIII(A) as the experimental group and class VIII(B) as the control group. The data were analyzed using an independent t-test, yielding a final significance value of 0.070. This indicates that there is no statistically significant difference between the experimental and control groups. These results suggest that the AIR learning model does not produce significantly different learning outcomes compared to conventional teaching methods in this context. Therefore, further research is needed to optimize the application of the AIR learning model in the Islamic Cultural History (SKI) subject.

Artikel Info

Sejarah Artikel

Diterima: 2024-11-11 Direvisi: 2024-11-23 Dipublikasi: 2025-01-09

Kata kunci:

Hasil Belajar; Model pembelajaran AIR; SKI

Abstrak

Penelitian ini mengkaji bagaimana eksperimentasi model pembelajaran Auditory, Intellectually, Repetition (AIR) terhadap hasil belajar peserta didik pada mata pelajaran Sejarah Kebudayaan Islam (SKI) di MTs Negeri 1 Bandar Lampung. Penelitian ini dilatarbelakangi oleh hasil belajar peserta didik yang belum memenuhi Kriteria Ketuntasan Minimal (KKM), yang mungkin disebabkan oleh keterbatasan metode pengajaran dan pengaruh faktor eksternal lainnya. Penelitian ini menggunakan metode pendekatan kuantitatif dimana populasi yang digunakan adalah seluruh peserta didik kelas VIII (delapan) dengan sampel yang digunakan adalah kelas VIII (A) sebagai kelas eksperimen dan kelas VIII(B) sebagai kelas kontrol. Data pada penelitian ini dianalisis dengan menggunakan uji t sampel independen, yang menghasilkan nilai signifikansi akhir sebesar 0,070, yang mana hal tersebut menunjukkan bahwa tidak adanya perbedaan pengaruh yang signifikan secara statistik antara kelompok eksperimen dan kontrol. Hasil ini menunjukkan bahwa model AIR tidak menghasilkan hasil belajar yang berbeda secara signifikan dibandingkan dengan model pengajaran konvensional dalam konteks ini, sehingga diperlukan penelitian lebih lanjut untuk mengoptimalkan penggunaan model pembelajaran AIR pada pelajaran Sejarah Kebudayaan Islam (SKI).

I. INTRODUCTION

Education is one of the most important aspects of a nation's development. High-quality human resources will produce intelligent, innovative, and creative individuals who can contribute to the progress of the nation. (Adiyono & Astuti, 2022; Darling-Hammond et al., 2020; Hayyun & Duri, 2019; Masitah et al., 2023; Palguna et al., 2020) Success in the educational process largely depends on the learning models implemented in schools. (Newton et al., 2020; Rojaki & Yuliana, 2023) In the current era of digitalization, the world of education faces increasingly complex challenges. (Hasanah et al., 2021; Hasanah & Ningrum, 2021; Silalahi, 2020) Teachers are expected to implement innovative

and interactive learning models to enhance students learning outcomes.(Lubis et al., 2023; Rambe & Aisyah, 2023)

Learning outcomes refer to a change in students' behavior after undergoing a learning process. These outcomes can be observed in aspects: cognitive, affective, psychomotor. (Adijaya et al., 2023; Masitoh, 2023; Rahim et al., 2023; Sartika et al., 2022) Students with high interest and motivation achieve generally greater success learning.(Aulia et al., 2023; Baber, 2020; Ndraha & Harefa, 2023; Yogi Fernando et al., 2024) However, in practice, the learning process is still lacking in variation, especially in the Islamic Cultural History (SKI) subject. As a result,

students have low metacognitive skills because educators tend to focus more on explaining the material theoretically rather than engaging students in activities. (Parwata et al., 2023)

Dawam Rahardjo stated that listening, seeing, and the heart are ways to acquire knowledge that can be developed through teaching.(Rahardjo, 2002) These three components hearing, seeing, and the heart have the responsibility of developing, and maintaining, purifying knowledge, which is related to the concept of learning.(Wakka, 2020) However, the current reality in the field shows that the learning activities conducted by educators are still lacking in variation, especially in the teaching of Islamic Religious Education, particularly in the subject of Islamic Cultural History (SKI).

Based on survey data from MTs N 1 Bandar through interviews with Lampung, Mrs. Rosmiyati, S.Pd.I, the Islamic Cultural History (SKI) subject teacher, and with three students, several issues were identified where the learning outcomes have not met the Minimum Completion Criteria (KKM). The low learning outcomes are suspected to be caused by several factors, such as: (1) limitations in the learning model, (2) inadequate or ineffective teaching time, and (3) the influence of external factors, including excessive use of gadgets.



Figure 1. Graph of Students' Learning Outcomes in the Pre-Research Implementation

Based on the figure above, the initial learning outcomes of students at MTs N 1 Bandar Lampung show varying levels of achievement. However, the learning outcomes of eighth-grade students in the Islamic Cultural History (SKI) subject are still low and have not met the Minimum Completion Criteria (KKM). The preresearch data in the figure also shows that most students struggle to reach higher-order thinking skills (HOTS) at levels C4-C6 (Analysis, Synthesis, and Evaluation). Furthermore, the graph indicates that the learning model currently used is not effective in improving students' learning outcomes. Therefore, there is a need for an

innovative new learning model that can help improve students' learning outcomes at MTs N 1 Bandar Lampung.

This study aims to contribute experimenting with the **AIR** (Auditory, Intellectually, Repetition) learning model on the learning outcomes of eighth-grade students in the Islamic Cultural History (SKI) subject at MTs Negeri 1 Bandar Lampung. The AIR learning model has been proven to enhance students' understanding through problem-solving methods.(Abdullah & Syahirah, 2023; Kartika & Nisarohmah Selegi. 2023; et al., Saharuddin et al., 2021) The AIR learning model is an approach that combines the elements of Auditory, Intellectually, and Repetition to support various learning styles and enhance the effectiveness of teaching, with the goal of expanding and deepening students' understanding. (Anggraini et al., 2022; Kamsurya & Saputri, 2020; Syahid et al., 2021; Utami et al., 2023)

The results of studies conducted by several previous researchers discussing (Auditory, Intellectually, Repetition) learning model are as follows: Harry Indah Kartika 2023), (Kartika & Selegi, Nur Nisarohmah (Nisarohmah et al., 2021), Tan Syahirah, 2023), Abdullah(Abdullah & Hermawati(Hermawati et al., 2020), and Muhamad Syazali (Syazali et al., 2021) which reveal that this learning model has the potential to improve students' learning outcomes. The results of previous studies also prove that there has been a significant improvement in learning outcomes. The AIR learning model is still relatively new, although many previous studies have proven that this model can improve students' learning outcomes. However, no researcher has conducted an in-depth study on this model. Previous research has yet to explore the application of the AIR learning model in the context of Islamic education, especially in the subject of Islamic Cultural History (SKI) at the Madrasah Tsanawiyah (MTs) level.

To improve students' learning outcomes in this era of digitalization, a new approach and innovation are needed to enhance the effectiveness of each learning process. (Abdul Sakti, 2023; Hasriadi, 2022; Saiful Rizal, 2023) Therefore, it is expected that this study can contribute to the development of more effective learning models at MTs Negeri 1 Bandar Lampung.

II. METHOD

This study uses a quantitative approach. Quantitative research is a study involving a set of interrelated variables, which are formulated into propositions or hypotheses that determine the relationships between variables.(John W. Creswell, 2018) This study uses a Quasi-Experimental Design with a Post-Test Only Control Group Design to compare one group with another. The aim is to observe the impact and compare the two groups.

E:	X	O ₁
P:		O_2

Figure 2. Post-Test Only Control Group Design Model Scheme

The population in this study consists of all eighth-grade students, with the sample including only two classes (experimental and control). In this study, the sample was determined using the Simple Random Sampling technique, which is a random sampling method based on the criteria for the research objectives.

The instrument used in this study was a test consisting of 15 multiple-choice questions. Before the instrument was used, a validation process was conducted by validators to ensure the quality of the questions. After validation, the instrument was distributed to a trial class. The results of the validity and reliability tests showed that, out of the 15 questions, 9 were valid, with a reliability value of 0.614. These results indicate that the instrument has a sufficient level of reliability to be used in the study.

The instrument testing in this study included validity testing, reliability testing, difficulty level testing, discrimination power testing, and distractor testing. Data analysis was conducted through prerequisite tests, including normality and homogeneity tests. Finally, hypothesis testing was performed using the Independent Sample T-Test to determine the significant difference between the experimental and control groups.

III. RESULTS AND DISCUSSION

A. Results

The data for this study were obtained from the distribution of an instrument consisting of 15 multiple-choice questions to a trial class. The results of the validity and reliability tests from the trial class were then used for both the experimental and control groups.

Table 1. Description of Reliability Test Results for the Trial Class

Reliability Statistics						
Cronbach's Alpha	N of Items					
.614	15					

Based on the results of the validity and reliability tests conducted on the trial class, the validity test results showed that several variables had a significant correlation with the total score, with Rcalculated \geq Rtable. This indicates that the instrument used is sufficiently valid. Meanwhile, the reliability test results showed a Cronbach's Alpha value of 0.614, which is greater than 0.6. This value indicates that the test instrument is adequate for measuring the research variables.

The data analysis results for class VIII A (experimental) and class VIII B (control) on students' learning outcomes in the subject of Islamic Cultural History (SKI) yielded the following interpretation:

1. Normality Test

The normality test is used to determine whether the collected data are normally distributed or not. Data is considered normal if the significance value is > 0.05. Below are the results of the normality test for this study:

Table 2. Description of Normality Test Results

Tests of Normality									
	Kolmogo	Kolmogorov-Smirnova							
	Kelompik	Statistic	df	Sig.	Statistic	df	Sig.		
Hasil	Manajemen Konflik	.251	32	.000	.818	32	.000		
пазп	Komunikasi Interpersonal	.227	32	.000	.929	32	.038		
a. Lilliefors Significance Correction									

Based on the results of the normality test in Table 2, the following interpretation can be made: For both the experimental and control groups, the Kolmogorov-Smirnov and Shapiro-Wilk significance values were 0.000 and 0.038, respectively. Both values are < 0.05, indicating that the data in both the experimental and control groups are not normally distributed.

Since the data in both groups do not meet the normality assumption, the analysis continued using the Mann-Whitney Test as an alternative non-parametric test. Below are the results of the Mann-Whitney Test:

Table 3. Description of Mann-Whitney Test Results

Test Statistics	ı				
	Result				
Mann-Whitney U	329.500				
Wilcoxon W	857.500				
Z	-2.517				
Asymp. Sig. (2-tailed)	.012				
a. Grouping Variable: kelompok					

Based on the results in Table 3, the Mann-Whitney U value obtained was 329.500, with a significance value of 0.012. Since this significance value is < 0.05, it indicates a significant difference between the experimental and control groups.

2. Homogeneity Test

The homogeneity test is used to determine whether the variances of the research populations are the same (homogeneous) or different (nonhomogeneous). Data considered is homogeneous if the Sig. value is > 0.05. Below is the data from the homogeneity test in this study:

Table 4. Description of Homogeneity Test Results

	Test of Homogeneity of Variance								
		Levene Statistic	df1	df2	Sig.				
	Based on Mean	.037	1	59	.848				
	Based on Median	.043	1	59	.836				
Postes	Based on Median and with adjusted df	.043	1	58.012	.836				
	Based on trimmed mean	.023	1	59	.881				

Based on the results of the homogeneity test in Table 4, all significance values obtained were 0.243 > 0.05, which can be concluded that the variance data is homogeneous (the same). This indicates that the homogeneity assumption in this study is fulfilled.

3. Independent Sample T-Test

The Independent Sample T-Test is used to test the final abilities of the samples. Below are the details of the results from the Independent Sample T-Test in this study:

Table 5. Description of Independent Sample T-Test Results

				Bistley	pendiest	Sample	n Teut			
		fiqu	's Test for ality of tunces	t-test for Equality of Moun						
		*	Ng		41			Std. Error Difference	leters	ntideace at of the cence
									Lower	Upper
	Equal vortances assumed	1.309	243	1.041	62	.070	65625	35683	05643	1.36893
Hand	Equal variances not assumed				57.244		65625	35653	.05761	1.37011

Based on the description table of the Independent Sample T-Test results above, the obtained significance (2-tailed) value is 0.070, which means the significance (2-tailed) value > 0.05. Therefore, it can be concluded that there is no significant difference between the mean scores of the two groups. This indicates that in this study, the AIR learning model did not have a significant effect on students' learning outcomes in the subject of Islamic Cultural History (SKI).

B. Discussion

This study aimed to test whether the Auditory, Intellectually, Repetition (AIR) learning model could improve students' learning outcomes compared to the conventional learning model. Based on the data analysis, it was found that there was no significant difference between the learning outcomes of students who used the AIR model and those who used the conventional model. This was evidenced by the significance value of 0.070.

The results suggest that the AIR model, involving approach that an auditory, intellectual. incorporates and repetition aspects, did not have a better impact on students' learning outcomes in this study. Therefore, further research is needed to understand the factors influencing the success of the AIR model, such as student characteristics, classroom conditions, or the way the model is implemented. These findings also present an opportunity to develop more effective teaching methods to improve student learning outcomes.

The AIR learning model is designed to support various learning styles through the approaches of Auditory (hearing), Intellectually (knowledge), and Repetition. (Asih et al., 2020; Benjamin, 2019; Damayanti et al., 2023; Elinawati et al., 2018) However, in this study, the application of the AIR model was not able to provide a significant influence or difference between the experimental group

and the control group. This was due to limitations in time during the research implementation, which prevented students at MTs N 1 Bandar Lampung from becoming sufficiently familiar with this learning model. Additionally, external factors such as classroom environment conditions, students' motivation, and students' characteristics also affected the results of the AIR model's implementation.

The findings of this study suggest that, although the AIR learning model has the potential to improve learning outcomes, its effectiveness requires supporting strategies, such as the researcher's preparation maturity, an adequate implementation duration, and strengthening students' motivation. (Agusdianita et al., 2023; Hira & Anderson, 2021; Patimah & Sumartini, 2022)

The experimental research results on the Auditory, Intellectually, Repetition (AIR) learning model, which did not show a significant effect, are not only due to the learning model itself but also other factors. One of these factors is the characteristics of the students, such as their ability to focus and varying study habits. Additionally, excessive use of gadgets can disrupt students' attention during the learning process. Another factor is the limited class time, which prevents students from having enough time to fully understand the material taught using the AIR model. Therefore, in this study, these factors became obstacles to the effectiveness of implementing the Auditory, Intellectually, Repetition (AIR) learning model.

This research is relevant to previous studies, such as the research by Siti Hafsah Siregar (Hafsah et al., 2023), M. Arsyad Ambo Tuo(Ambo Tuo & Ahmad, 2022), and Annisa Fajra Ashar (Ashar dan Waldi, 2023) Since both studies use the AIR model, this study contributes further by experimenting with the AIR learning model's effect on students' learning outcomes in Islamic Cultural History (SKI) at the eighth grade level in MTs, focusing on cognitive levels C4-C6. The research employs a quantitative approach using the Independent Sample T-Test. The findings of this study are expected to provide new insights into the effectiveness and flexibility of the AIR model in different contexts.

This research can be beneficial for other researchers as a reference in evaluating the effectiveness of the Auditory, Intellectually, Repetition (AIR) learning model in various learning contexts. The results also provide empirical data regarding the impact of the AIR model on learning outcomes, including its advantages and limitations. Other researchers may use these findings to deepen their studies, develop the model further, or adapt the AIR model according to the needs of different subjects, education levels, or student characteristics. Additionally, this research may encourage further exploration of the factors that influence the success of the AIR model, ultimately leading to the development of more effective teaching strategies in the future.

IV. CONCLUSION AND SUGGESTION

A. Conclusion

This study aims to examine effectiveness of the Auditory, Intellectually, Repetition (AIR) learning model on students' learning outcomes in Islamic Cultural History (SKI) at MTs Negeri 1 Bandar Lampung. Based on the analysis conducted, the validity and reliability tests of the instruments show that the instruments used are sufficiently valid and reliable to measure the research variables. However, the normality test results indicate that the data from both the experimental and control groups do not follow a normal distribution. Therefore, the analysis continued with the non-parametric Mann-Whitney Test, which revealed a significant difference between the experimental and control groups. The homogeneity test results indicated that the data have homogeneous variance, meeting the basic assumption of this analysis. In the Independent Sample T-Test, the significance value of 0.070 indicates that the sig (2-tailed) value is > 0.05, meaning there is no significant effect of the AIR learning model on students' learning outcomes. Thus, this study concludes that the AIR learning model does not significantly affect students' learning outcomes in the SKI subject, despite the average difference between the experimental and control groups.

B. Suggestion

Teachers are encouraged to implement the AIR (Auditory, Intellectually, Repetition) learning model to enhance students' learning outcomes, particularly in the subject of Islamic Cultural History (SKI). Adequate training and thorough preparation are essential to ensure the effective application of this model. Additionally, schools should

support this process by providing sufficient learning time and minimizing distractions, such as excessive gadget use.

Future researchers are advised to explore the application of the AIR model in Islamic education in greater depth. This research could also focus on adapting the model to meet students' needs in the digital era while improving critical thinking skills and overall learning outcomes.

REFERENCES

- Abdul Sakti. (2023). Meningkatkan Pembelajaran Melalui Teknologi Digital. Jurnal Penelitian Rumpun Ilmu Teknik, 2(2), 212–219. https://doi.org/10.55606/juprit.v2i2.2025
- Abdullah, T., & Syahirah, N. I. (2023). The Application of Audiovisual-Based Auditory Intellectual Repetition Model in Improving Learning Outcomes of Grade IV Natural Sciences. 2(04), 21–27.
- Adijaya, M. A., Widiana, I. W., Parwata, I. G. L. A., & Antara, I. G. W. S. (2023). Bloom's Taxonomy Revision-Oriented Learning Activities **Improve** Procedural Capabilities and Learning Outcomes. International Journal of Educational Methodology, 261-270. 9(1), https://doi.org/10.12973/ijem.9.1.261
- Adiyono, A., & Astuti, H. (2022). processing of Education Assessment Results in the Eva of Learning Outcomes. Jurnal Pendidikan Dan Manajemen Pendidikan Islam, 2(2), 50–59.
- Agusdianita, N., Kurniawati, I., Supriatna, I., & Tarmizi, P. (2023). Penerapan Model Pembelajaran Pjbl Untuk Meningkatkan Hasil Belajar Mahasiswa Pada Perkuliahan Pengembangan Pembelajaran Tematik. Jurnal Pembelajaran Dan Pengajaran Pendidikan Dasar, 6(1), 43–49. https://doi.org/10.33369/dikdas.v6i1.246
- Ambo Tuo, M. A., & Ahmad, A. K. (2022). Model Pembelajaran Auditory Intellectually Repetition. Al-Irsyad: Journal of Education Science, 1(2), 77–87. https://doi.org/10.58917/aijes.v1i2.29
- Anggraini, N. A., Ningsih, E. F., Choirudin, C., Darmayanti, R., & Triyanto, D. (2022). Application of the AIR learning model using song media to improve students' mathematical representational ability.

- AMCA Journal of Science and Technology, 2(1),28–33.
- https://doi.org/10.51773/ajst.v2i1.264
- Ashar dan Waldi. (2023). Peningkatan hasil Belajar Tematik Terpadu dengan Model Kooperatif Tipe Auditory, Intellectually, Repetition di Kelas V SD. Jurnal Pendidikan Dan Konseling, 5(3), 116–122.
- Asih, N. P. A. G., Ardana, I. K., & Ganing, N. N. (2020). Model Auditory, Intellectually, Repetition (AIR) Berbantuan Media Audio Visual Berpengaruh terhadap Peningkatan Kompetensi Pengetahuan IPA. Jurnal Mimbar Ilmu, 25(3), 411–421. https://ejournal.undiksha.ac.id/index.php/MI/article/view/26213/16467
- Aulia, R. P., Prihatin, J., & Siswati, B. H. (2023). Hubungan Antara Minat Belajar Dengan Keberhasilan Belajar Siswa Dengan Penerapan Buku Ajar Elektronik Sistem Ekskresi Berbasis Brain-Based Learning (Bbl) Dilengkapi Video Dan Diagram Bio-Lectura : Roundhouse. Iurnal 10(1), Pendidikan Biologi, 11-17.https://doi.org/10.31849/bl.v10i1.13435
- Baber, H. (2020). Determinants of students' perceived learning outcome and satisfaction in online learning during the pandemic of COVID19. Journal of Education and E-Learning Research, 7(3), 285–292. https://doi.org/10.20448/JOURNAL.509.2 020.73.285.292
- Benjamin, W. (2019). Pengaruh Model Pembelajaran Auditory, Intelectually, and Repetition (Air) Terhadap Kemampuan Pemecahan Masalah Matematis Ditinjau Dari Gaya Belajar Peserta Didik. 3(3), 1–9.
- Damayanti, P. S., Nabhar, N., & Auliya, F. (2023). Eksperimentasi Model Pembelajaran AIR (Auditory Intellectually Repetition) Terhadap Kemampuan Pemecahan Masalah Soal HOTS Pada Materi Statistika Siswa VIII SMP Negeri Lasem. Kelas 3 CONSISTAN: Jurnal Tadris Matematika, 49-58. https://ejournal.algolam.ac.id/index.php/C **ONSISTAN**
- Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B., & Osher, D. (2020). Implications for educational practice of the science of learning and development. Applied

- Developmental Science, 24(2), 97-140.
- Elinawati, W., Jago Duda, H., Julung, H., Studi Pendidikan Biologi, P., & Persada Khatulistiwa Sintang, S. (2018). Penerapan Model Pembelajaran Auditory Intellectually Repetition (AIR) terhadap Hasil Belajar Kognitif Siswa Implementation of Auditory Intellectually Repetition (AIR) Learning Model to Students' Cognitive Learning Outcomes. Jurnal Sainsmat, VII(1), 13–24. http://ojs.unm.ac.id/index.php/sainsmat
- Hafsah, S., Basri, M., & Zunidar. (2023). Pengaruh Model Pembelajaran Auditory Intelectually Repetition (AIR) terhadap Hasil Belajar Siswa pada Mata Pelajaran Tematik di SDN 101769 Tembung. Jurnal Pendidikan Tambusai, 7(3), 21719–21730. https://mail.jptam.org/index.php/jptam/article/view/9961
- Hasanah, R., & Ningrum, N. (2021). Pengaruh Penggunaan Model Pembelajaran Air (Auditory, Intellectualy, Repetition) Berbantu Question Card Terhadap Hasil Belajar Ips Terpadu Peserta Didik Kelas Vii Smp Muhammadiyah Ahmad Dahlan. PROMOSI (Jurnal Pendidikan Ekonomi), 9(1), 39–48. https://doi.org/10.24127/pro.v9i1.3844
- Hasanah, R., Ningrum, N., & Pritandhari, M. (2021). Pengaruh Penggunaan Model Pembelajaran Air (Auditory, Intellectualy, Repetition) Berbantu Question Card Terhadap Hasil Belajar Ips Terpadu. EDUNOMIA: Jurnal Ilmiah Pendidikan Ekonomi, 2(1), 39–48. https://doi.org/10.24127/edunomia.v2i1.1629
- Hasriadi, H. (2022). Metode Pembelajaran Inovatif di Era Digitalisasi. Jurnal Sinestesia, 12(1),136–151. https://sinestesia.pustaka.my.id/journal/article/view/161
- Hayyun, M., & Duri, bella aulia. (2019). Pengaruh Model Pembelajaran Auditory Intellectually Repetition (Air) Terhadap Hasil Belajar Matematika Siswa Sekolah Dasar. Jurnal Holistika, 3(2), 127–130. https://jurnal.umj.ac.id/index.php/holistika/article/view/5363
- Hermawati, E., Pebriyanti, I., & Fitriyani, Y. (2020). The Effect of Application of The

- Auditory Intellectually Repetition (AIR) Cooperative Learning Model to Improve the Understanding of Mathematics Concepts. International Conference on Elementary Education, 3(November), 145–152. http://proceedings2.upi.edu/index.php/icee/article/view/1456
- Hira, A., & Anderson, E. (2021). Motivating online learning through project-based learning during the 2020 COVID-19 pandemic. IAFOR Journal of Education, 9(2), 93–110. https://doi.org/10.22492/ije.9.2.06
- John W. Creswell, J. D. C. (2018). Research Design (Qualitative, Quantitative, and Mixed Methods Approaches (5th ed.). SAGE publications.
- Kamsurya, R., & Saputri, V. (2020). Influence of Auditory Intellectually Repetition (AIR) and Self Efficacy Learning Models on HOTS Problem-Based Problem Solving Ability. Jurnal Ilmiah Mandala Education, 6(2). https://doi.org/10.58258/jime.v6i2.1396
- Kartika, H. I., & Selegi, S. F. (2023). Indonesian Journal of Primary Education The Impact of The Auditory , Intellectually , Repetition (Air) Model on Social Studies Learning Outcomes. 7(1), 67–74.
- Lubis, L. H., Febriani, B., Yana, R. F., Azhar, & Darajat, M. (2023). The Use of Learning Media and its Effect on Improving the Quality of Student Learning Outcomes. JInternational Journal of Education, Social Studies, And Management (IJESSM), 3(2), 7–14.

https://doi.org/10.31326/jisa.v6i1.1661

- Masitah, M., Purwaningsih, S., & Siburian, J. (2023). Pengaruh Penerapan Model Pembelajaran Auditory Intellectually Repetition (AIR) dan Motivasi Terhadap Hasil Belajar Siswa Kelas VIII SMP Negeri 14 Kota Jambi. Biodik, 9(1), 110–115. https://doi.org/10.22437/bio.v9i1.19314
- Masitoh, S. (2023). Meningkatkan Hasil Belajar Siswa Dengan Strategi Komplementer Melalui Motivasi Belajar (H. T. Novindaning (ed.)). CV. Mega Press Nusantara.
- Ndraha, H., & Harefa, A. R. (2023). Pentingnya Media Pembelajaran dalam Meningkatkan Minat dan Motivasi Belajar Siswa di SMP Negeri 2 Gunungsitoli Utara. Journal on

- Education, 06(01), 5328-5339.
- Newton, P. M., Da Silva, A., & Peters, L. G. (2020).

 A Pragmatic Master List of Action Verbs for Bloom's Taxonomy. Frontiers in Education, 5(July),1–6.

 https://doi.org/10.3389/feduc.2020.0010

 7
- Nisarohmah, N. I., Rochmad, R., & Rosyida, I. (2021). The Effectiveness of Auditory, Intellectually and Repetition Learning with RME Approach to Students Mathematical Communication Ability. Journal of Primary Education, 10(3), 179–193.
- Palguna, I., Parwati, N., & Divayana, D. (2020). Pengaruh Model Pembelajaran Auditory, Intellectually, Repetition Berbantuan Media PEembelajaran I-Spring Terhadap Motivasi dan Kemampuan Pemecahan Masalah Program Studi Teknologi Pembelajaran Universitas Pendidikan Ganesha. Jurnal Teknologi Pembelajaran Indonesia, 10(2), 56–75.
- Parwata, I. G. A. L., Jayanta, I. N. L., & Widiana, I. W. (2023). Improving Metacognitive Ability and Learning Outcomes with Problem-Based Revised Bloom's Taxonomy Oriented Learning Activities. Emerging Science Journal, 7(2), 569–577.
- Patimah, E., & Sumartini, S. (2022). Kemandirian Belajar Peserta Didik Pada Pembelajaran Daring: Literature Review. Edukatif: Jurnal Ilmu Pendidikan, 4(1), 993–1005. https://doi.org/10.31004/edukatif.v4i1.19
- Rahardjo, M. D. (2002). Encyclopedi Al-Qur an tafsir sosial berdasarkan konsep-konsep kunci. Jurnal Ulumul Qur an Indeks.
- Rahim, A., Masni, H., Afrila, D., Hutabarat, Z. S., Yarmayani, A., Pamungkas, A., & Syaputra, D. (2023). Motivasi Belajar dan Hasil Belajar Melalui Model Pembelajaran Kooperatif. Jawa Tengah: Eureka Media Aksara, 1–23.
- Rambe, A. H., & Aisyah, S. (2023). Correlation of Auditory, Intellectually, Repetition (Air) Learning Models on Student Achievement. Molang: Journal Of Islamic Education, 1(01), 1–10. https://doi.org/10.32806/c6evca15

- Rojaki, M., & Yuliana, B. (2023). Komponen Penentu Keberhasilan Pendidikan Kejuruan. EduCurio: Education Curiosity, 2(1), 19–27. https://qjurnal.my.id/index.php/educurio/article/view/619/516
- Saharuddin, Ismawati, I., Dassa, A., & Rosidah. (2021). The effects of the implementation of Auditory, Intellectual, Repetition (AIR) learning model in mathematical problem solving ability. International Conference on Educational Studies in Mathematics (ICoESM), 611(ICoESM), 1–5. https://www.atlantis-press.com/proceedings/icoesm-21/125965645
- Saiful Rizal, A. (2023). Inovasi Pembelajaran untuk Meningkatkan Hasil Belajar Siswa di Era Digital. Attanwir: Jurnal Keislaman Dan Pendidikan, 14(1), 11–28. https://doi.org/10.53915/jurnalkeislaman danpendidikan.v14i1.329
- Sartika, S. B., Untari, R. S., Rezania, V., & Rochmah, L. I. (2022). Belajar Dan Pembelajaran. file:///C:/Users/Acer/Downloads/1315-Article Text-6388-1-10-20230712.pdf
- Silalahi, M. V. (2020). Development of E-Modules
 Based on Exe-Learning on Topics of
 Reaction Rate Against Student Learning
 Outcomes Mechanical Engineering.
 International Journal of Education &
 Curiculum, 3(2), 114–120.
 http://journal.ummat.ac.id/index.php/IJEC
 A
- Syahid, L., Djabba, R., & Mukhlisa, N. (2021).

 Penerapan Model Pembelajaran Auditory
 Intellectually Repetition Untuk
 Meningkatkan Hasil Belajar Siswa Sekolah
 Dasar di Kabupaten Barru. Pinisi Journal of
 Education, 1(2), 2189–2198.
- Syazali, M., Iqoh, U., Mufty, V. F., & Rahmawati, Y. (2021). Auditory intellectually repetition learning model and trade a problem learning model on row and series algebraic material: The influences on numerical skills. IOP Conference Series: Earth and Environmental Science, 1796(1). https://doi.org/10.1088/1742-6596/1796/1/012104

- Utami, D. D., Alfiyani, N., Lingga, M., & Sudrajat. (2023). Application of the Combined Learning Model of JIGSAW and AIR (Auditory, Intellectually, Repetition) Learning Methods in Social Sciences Subjects. Jurnal Pendidikan IPS, 13(2), 278–283.
- Wakka, A. (2020). Petunjuk Al-Qur'an Tentang Belajar Dan Pembelajaran. Education and Learning Journal, 1(1), 82. https://doi.org/10.33096/eljour.v1i1.43
- Yogi Fernando, Popi Andriani, & Hidayani Syam. (2024). Pentingnya Motivasi Belajar Dalam Meningkatkan Hasil Belajar Siswa. ALFIHRIS: Jurnal Inspirasi Pendidikan, 2(3),61–68.

https://doi.org/10.59246/alfihris.v2i3.843