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# THE APPLICATION OF LOCAL CULTURE AND SCIENCE BASED ISLAM EDUCATION CURRICULUM AT SCHOOL AND MADRASA

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***Abstrak:*** *Penelitian ini mengkaji sebuah pola melalui penerapan pembelajaran Pendidikan Agama Islam di sekolah dan madrasah yang berbasis sains dan budaya. Penelitian ini mengarah kepada penerapan yang berbasis sains atau ilmu pengetahuan alam yang dikaitkan dengan budaya lokal di Indonesia khususnya dengan mengutamakan nilai-nilai yang ada di dalam Islam. Tujuan dari pengkajian penelitian ini adalah untuk mencari dan meneliti tentang ilmu sains yang diterapkan dengan menyandingkan atau mengkaitkan dengan kebudayaan yang dimiliki oleh Indonesia. Dengan penelitian tentang penerapan dalam proses pembelajaran yang lingkupnya membahas tentang sains budaya lokal dengan mengutamakan sebuah pendekatan nilai-nilai keislaman. Dalam prosesnya, penelitian ini bukan mengarahkan pembelajaran Pendidikan Agama Islam pada ranah kualitatif dan kuantitatif atau penggabungan namun pembelajaran ini bisa menggunakan salah satu bahkan kedua-duanya dalam metodologi pembelajarannya. Kajian yang membahas tentang penerapan pembelajaran yang mengarah pada sains dan mengacu kebudayaan Indonesia dengan melihat nilai-nilai keislaman, dapat disebut sebagai hasil pengamatan kebiasaan yang diajarkan dan dipraktekkan pada kegiatan proses pembelajaran di sekolah dan madrasah.*

**Keywords***:* Pembelajaran, Pendidikan Agama Islam, Sains, Budaya.

***Abstract:*** *This research studies a pattern through the application of science and culture based Islamic Education at school and madrasa. This research refers to application based on natural science related to local culture in Indonesia by giving priority to the values in Islam. This research aims to search for and research about applied science by pairing or linking with the culture of Indonesia. It is research about the application in the learning process in which scope discusses the science of local culture by prioritizing an approach to Islamic values. In the process, this research is not directing the learning of Islamic Religious Education in the realm of qualitative and quantitative or merging, but this learning can*

*use one or even both in the learning methodology. This research discusses the application of learning that leads to science and refers to Indonesian culture by looking at Islamic values. It can be referred to as observations of habits taught and practiced in the learning process activities in schools and madrasas.*

**Kata Kunci***: Learning, Islamic Education, Science, Culture*

## INTRODUCTION

Islam is a religion which was sent by Allah SWT through obedient and trusted angels in accordance with their duties. One of them was Gabriel who was tasked with conveying revelation to Allah's chosen creatures. In the process, Allah SWT revealed Islam through the intermediary of the Prophet Muhammad who was a creature of His creation which was very noble and very beloved (Wahidin, Unang; Ahmad, 2018). Related to the education, Islam is also encouraged and instructed to provide an insight and knowledge horizon about various sources of knowledge which explore Islam. As the Prophet Muhammad (PBUH) was sent by Allah SWT to give the symbols of Islam and justify the life that was previously said to be very far from the right life, even the teachings that accuse the ummah/people were very large and could not be overcome (Rerung, Sinon, & Widyaningsih, 2017 ).

The application is a step, action or prove in conducting each activity which will be able to be seen and felt. Application can also be interpreted as a habit of doing things to produce an experience obtained and will produce a change (Idrus Hariri & Mulyani, 2016). Learning can be defined as an activity carried out by an educator whose aim is to provide supplemental knowledge that has not been obtained to their students (Zainal, 2008). Learning is a plan which will be processed using models and strategies that have been prepared and later there will be evidence of the results that have been implemented. This processing cannot be separated from the process of good interactions between educators and students (Pane & Darwis Dasopang, 2017).

Indonesia has natural wonders which are very pleasing in the eyes of the world. The thing which makes Indonesia is part of a country in the world and a country that has the most islands in the world. It can be seen that the population of Indonesia is currently not only indigenous people, but various races and descendants from various parts of the world are in this Indonesian country. Thus, Indonesia has the motto that is on the Garuda bird symbol which is a mascot or symbol of the greatness of the Republic of Indonesia. It is Unity in Diversity. it remains different. It is a foundation and also a passion for the people of Indonesia to respect each other and also most importantly respect each other. Because Allah, the Most Powerful, is the one who owns and created the earth

and also the planets that are in outer space. And Allah gives the humans mind and heart to always carry out and remember the commands that Allah suggests and His commands through the intermediaries of the Prophet Muhammad.

Indonesian native culture is the initial history. It was brought up in the past and had been existed since ancestral era. They lived in various ways and various thoughts to live their own lives. Culture in Indonesia has entered the era of Globalization. In this era, the original Indonesian culture from the days of ancestors will be lost and even taken by other countries over time. This native Indonesian wisdom is a source and reference in education as well as to achieve the image and intelligence of children by promoting moral values, culture, customs, traditions, traditions from each area they live in, religion, art and history. In formal education, for example, in schools under the Department of Education or informal education, for example foundations or educational institutions that are brought under the auspices of groups or private local wisdom also enter into the education material or its daily activities at school. Therefore, it can be concluded that the tradition is already inherent and already exists within the community itself. Furthermore, it is already as a belief and habit of the community itself. Therefore, as a society that has a noble ethics and character must be able to provide a sense of security and peace, and uphold the values of brotherhood and good solidarity between communities that have expanded and prioritize the cultural and social order (Jayana, 2018).

## RESEARCH METHOD

This research is qualitative research using collecting data method through obsevation or direct observation (Prihatsanti, Suryanto, & Hendriani, 2018). In addition, to add more accurate data, researcher uses interviews with several teachers who had been previously appointed to be resource persons (Hakim, 2013). The interviews used are infinite and cutting edge, wherein this interview combines unlimited interviews with cutting edge interviews. Thus, the use of methods by combining the two is done by the method of taking instruments or data using guidelines from existing interviews (Rosaliza, 2015).

In conducting data retrieval, researcher makes a design and questionnaire. Researcher tries to find and explore more detailed and clear information. Thus, the thesis preparation

process can be neatly organized and effective. The technique taken and used by researchers in the data collection process is conducting interviews with predetermined informants. (Rijali, 2019). In analyzing this data, researcher uses various methods which will be used to be a way that suits the desired fatigue. Data which have been collected and made into one. Furthermore, it is managing data and analyzing data which has been collected at the time of taking data. The initial step that must be done in analyzing data is to do the coding. Coding is the most basic step to operationalize data analysis which leads to qualitative research. Until this coding stage, the field data that had previously taken were collected in accordance with each discussion (Irkhamiyati, 2017).

## RESULT AND DISCUSSION

The way to coordinate and manage time for each activity, either in making process of work program until mastering in dealing with students are seen from arranged personality and life of the educator. Absolutely, students will be able to feel and assess what has been obtained during the students studying at the school (Fakhrurrazi, 2018). Science is generated from the word *scientia* which means "I know". Listed in the English Dictionary, the word science is a science of horizon (Maknun, 2017). Science can be concluded that the knowledge that studies and studies deeper by looking at the causes that are the point of the problem and also the effects of problems that occur in nature that God created. Science which explores and discusses science in the field of nature has a unity by searching for a source point about nature objectively. Therefore, science is not only as a regulator and not only as a point of discussion that is only focused into knowledge which consists of structured concepts, actual facts or clear principles. It is the core of an action in the discovery .

Science which studies about nature is thoughts and mastery of the material conveyed by humans through communication interactions that will produce a data and capital to be used as research material. It is visiting the place that will be used as an object of research objectives and also a place to do a new creation in an orderly manner, as well as must include material used as a binder and reinforcement of the results of the research, such as legal matters, principles, rules, hypotheses and theories (Hidayatullah, 2019).

Natural Sciences is a science that leads more on knowledge about nature and focus on the material point of the discussion by looking at how the process which occurs in every natural phenomenon that occurs. Science is explained as a control tool which aims to further examine and explore the nature of the universe. The aims of science learning process are expected to become a place for students in learning themselves and nature that is around by having a target to see the development of students in carrying out daily activities. Studying scientific literacy is also an ability to use scientific sources of knowledge, study questions and provide its own attraction in concluding based on concrete facts and clear and complete data, interpreting every event in the universe and also making decisions from the impact of problems and events which occurs because of activities carried out by humans (Ratnawati, Rahayu, & Prayitno, 2010).

The world sees Indonesia as a country that has the most islands in the world located in ASEAN/Southeast Asia. Indonesia has 17,508 islands stretching in Indonesia with a total area of Indonesian islands is 1,904,569 $km^2$. Indonesia is a very unique country and has its own characteristics. Indonesia has main islands such as Papua, Sulawesi, Kalimantan, Sumatra and Java. Called the Largest Islands Country in the world, Indonesia is one of the hundreds of countries in the world which has the longest coastline in the world.

Indonesia is a country that was destined and created by Allah, the Creator and Everything. It can be seen with concrete evidence that Allah gave a very beautiful and very amazing creation to humans that Allah was destined to descend on earth. Indonesia is a maritime country. It is seen from its many and very rich natural ecosystems. It can be seen from early history of the formation of Indonesia. Indonesia was a country that was colonized, oppressed and deprived of abundant natural resources and even the original Indonesian people became as slaves or workers for the Dutch, Japanese and Portuguese colonizers. How rich Indonesia was until even a foreign country dared to come and set foot on Indonesian soil to intend to have rights and authority in matters that included economics, politics, and law at the time (Budi Setyaningrum, 2018).

Indonesia is a million of colors and million of souls because it has various kinds of types of religion, ethnicity, race, language, and culture. With the added

charm of the universe in Indonesia, it becomes the benefit for the Indonesian state. Studying science is more directed at the desire to achieve understanding and mastery in the field of science or can hold on to certain concepts. Thus, students can remember and digest with the concepts which are in the science. However, it cannot be used to apply every concept which has been learned in dealing with every problem in life itself. Thus, the learning process emphasizes the mastery of one of the concepts of the many concepts of science. It will cause students to experience the processing of material that is critically under-developed and not optimal. Furthermore, an evaluation of learning will be carried out to be able to see whether there are obstacles and problems or it is fine without any obstacles (Majdi, 2019).

Culture and the process of learning are two things which are very related and can't be separated. Due to its association with culture, it is very supportive in the process of learning activities. If science learning that is carried out at school ignores and does not see the culture for students, the consequences will be that students want to choose to reject or accept some forms and concepts of science that will be continued and improved in learning. The step to internalize one of the cultures raised in learning is one of the tactics in planning to improve the quality and creativity of students' thinking by means of a detailed approach as a design of the learning process associated with knowledge and sources in accordance with the real world (Yunus, 2016). Thus, students can conduct relationships in order with the knowledge gained. The plan tactics that have been designed will provide a sense and experience in developing creativity, for example in using the brain to think clearly and critically (Rahayu, 2014).

Therefore, learning model used and provided for learning process is Fostered inquiry as a model in the learning process which puts forward the search program and explains the relationship between objects and circumstances (Mubah, 2011). The form of guided inquiry learning is motivating students to investigate existing problems by using scientific skills in order to find explanations so that they can help students become more independent and responsible. Students will be excited when they learn to open and get things by themselves, compared to listening to what the teacher says. They learn to do activities with their own autonomy and

become an inner-directed person. Students learn to manipulate their environment more actively.

In learning and teaching activity, the role of teacher as guide is by giving the direction if it is needed. As long as students do not need help, students are allowed to work in their study groups independently. In this learning, students are trained to develop facts, develop concepts and general conclusion or theories which explain about phenomena that cultivate creativity and innovation in scientific discovery or in English, it is said to be scientific inquiry for students. The scope of this learning practice will certainly make students motivated to learn, because in learning activities, they can learn to find something by themselves. Thus, the learning process will be more meaningful for students. In addition, the existence of energy with culture that is acquired and owned by students and the sciences that will be strengthened to be read and studied can help students to more easily understand learning material (Ni Putu Marheni, 2014).

In conducting science research based on local wisdom and take in an area, The most preferred is learning model to be used. By using ways to develop and explore original science, the researcher will be able to compare and also find out how much the contribution of science by linking the original culture of Indonesia. The meaning of building and exploring this original science are concepts which have been listed and created in western science to be rearranged. Thus they can become the basis for assessment (Pieter, 2016). In conducting research by visiting or observing this original science, it is carried out by looking at and selecting research sites or objects related to culture in Indonesian society. Therefore, it can be concluded that the learning model that links original science with local wisdom is obtained from the experience and knowledge of indigenous people or can be considered to be community leaders who understand and know the pedigree from the beginning of a cultural event which is still being implemented. The tradition of noble values is a key in the order of the community in maintaining the original culture, the ultimate goal for (Khusniati, 2014).

**Culture Based Islamic Education Curriculum**

Curriculum and education are things which can be separated. Curriculum is methods or ways to achieve educational goals. Curriculum is a system or method

of carrying out the teaching and learning process for the achievement of learning objectives. The curriculum can also be used as a benchmark for success or failure of teaching and learning activities in schools and a measure of the quality of the learning process. In the curriculum, there is already a description of the knowledge, skills, attitudes, and values which are expected to be present in students or graduates of an educational institution.

The curriculum deals with planning student activities. The curriculum was originally the term "running" in athletic language which is often referred to as curere. The curriculum is then interpreted as a number of subjects or knowledge that students must master to get a diploma or achieve a higher level of education. It means that students are entitled to get a diploma or rise to a higher level of education when it is considered mastering the curriculum. The implementation of the curriculum in each educational institution includes 3 things which are, (1) curriculum design, (2) curriculum implementation, (3) curriculum evaluation. These three things are mandatory in every education implementation. It is to make the goal of the educational institution can be achieved.

Development management of Islamic education curriculum is elaboration and extension or refinement. Thus, a curriculum is feasible to use and easy to understand. Learning activities in the classroom will run smoothly, conducive, interactive, innovative, creative if based on a good curriculum. An education can work if the curriculum as a buffer that is very important in the teaching and learning process according to experts the core of an education is a good and right curriculum. The curriculum is expected to develop in accordance with the times. Curriculum relationship indirectly is very close to the community. Communities need schools and schools certainly have a curriculum which is a reference for teaching and learning. Therefore, the curriculum must refer to the original purpose of an education itself. The curriculum must include increasing the potential for intelligence in everything.

The unit level of education is related to KTSP (Education Unit Level Curriculum) of educational institutions and educators must be able to understand a concept and theory of development by identifying and improvising the

curriculum has components which are objectives, content or materials, methods or ways on how to conduct teaching and learning and evaluation. Each component is interrelated and there is an alliance between components. Therefore, we need a role from a very important curriculum below:

a. Conservative Role

This role is important because school as educational institution can affect the behavior of students with a variety of social behaviors in the community.

b. The Role of Critical and Evaluation

Besides developing culture, educational institution can also value how to choose various cultural elements which are inherited. Thus, the curriculum must be the basis of certain criteria that exist in society.

c. The role of Creative

This role is conducted for the way to teach with learning materials delivered by educators can be understood and understood by students.

The three roles of the curriculum must be balanced and run well so that the teaching and learning process has no obstacles encountered. The orientation of the concept of the role of the curriculum above is that the results of curriculum management must be able to produce products of thought, experience, and community needs in accordance with the demands of development and a dignified and moral culture in the social and religious values of Islam. Thus, in order to realize the learning of Islamic religious education based on culture, we need a curriculum development planning as follows:

a. The Definition of Curriculum

Curriculum plan is process in which students make decisions about how to achieve goal and what methods must be carried out effectively. Without curriculum planning, systematic learning experiences will not be interconnected and do not lead to expected goals.

b. The Principle Curriculum Developing

Planning a curriculum principle must be based on a clear concept and a better life. In planning, it must involve several experts to obtain good learning.

c. Function and Goal of Curriculum Plan

It is the process to develop a method and learning objectives to achieve the expected goals. The planning process is the intellectual process of a person in determining the direction of goals, as well as determining decisions to be realized in the form of actions or activities by observing opportunities and future-oriented which will occur.

In organizing curriculum development, it needs forms of curriculum development including subject curriculums, curriculums with correlated subjects, correlated subject curriculum, integrated curriculum and core curriculum. Meanwhile, the implementation of curriculum development basically requires the implementation and implementation of the commitment of all parties involved in planning curriculum development. All parties must cooperate in designing curriculum development. On the evaluation side, curriculum development is very necessary in developing a curriculum. However, in conducting an evaluation, it must look at several indicators which can improve the quality of education. By evaluating the curriculum, we can find out the weaknesses of the previous curriculum and by knowing the weaknesses of the curriculum compilers arrange how to make the curriculum better without overcoming weaknesses or losses that existed in the previous curriculum.

In Islamic education, there are principles which need to pay attention as guideline so that learning process will run well. In addition, in order to realize effective culture-based learning, these principles need to be considered. The principle of curriculum evaluation is regarding specific objectives, which are objective, comprehensive, cooperative and responsible in planning, efficient and sustainable.

a. Certain goal means that each curriculum evaluation program must be directed towards achieving clearly and specifically determined goals.

b. Objective means giving priority to an actual situation, sourced from real and accurate data

c. Comprehensive means that all components in the curriculum must be comprehensive to be able to get the attention of experts.

d. Cooperative and Responsible in planning. In curriculum planning and development, all parties of the curriculum compilers must pay attention to the curriculum foundation and be responsible for its preparation

e. Efficiency, especially in the use of time, cost, energy, and equipment that become supporting elements. Therefore, efforts must be made so that the evaluation results are higher or at least balanced with the costs incurred.

f. Continuously. this needs to consider the curriculum that must be in accordance with the state of the community. This is where the role of a teacher is needed to be an intermediary or bridge of knowledge for the community.

The basis of implementing curriculum development is philosophical basis, Psycholigical Basis, Socialist Basis. If we already know what is the basis of education then teaching materials can achieve the desired goals. The psychological basis is divided into two which are the science of learning and psychology of children. This learning psychology gives students confidence in the process of how these children learn. Whereas, children's psychology to develop children's talents themselves, how a curriculum can develop children's talents with the best curriculum development. Children can't live alone. Indeed, humans need other people. Therefore, in this case, the child interacts with the surrounding community. This also needs to be considered for curriculum development

This basic thing is very important in the implementation and development of the curriculum because without a basic curriculum, it will never be well structured. It is like the foundation of a house. If the foundation is not available, the house will collapse. If curriculum without foundation then the collapse of the curriculum development system results. This can affect the quality of education in an educational institution. The curriculum is a direction in which

education will be directed or what kind of education will produce. The curriculum also needs to be fostered to improve the quality of education. The curriculum is seen from the results of successful or not education. If it is not certain in a curriculum, there is something wrong in the preparation or educators who are wrong in understanding a curriculum.

## CONCLUSION

Islamic education with science combined with local culture of Indonesia has a correlation, especially if it is added by Islamic value. Science is a knowledge that studies the process of natural phenomena occurring on this earth and explores to reveal the occurrence of phenomena contained in science by describing it through scientific methods. Associated with culture, science also includes culture in the discussion of material because culture is included in the characteristics of science. In this case, culture is a discussion of material which examines the basis of culture. For example, it can be seen as citizenship, language and religion. In Indonesia, the country which is referred to as the largest archipelago in the world, has abundant ecosystems and natural resources, especially the majority of people in Indonesia are Muslim. In education in Indonesia, it also prioritizes moral values, noble character and also spirituality. Therefore, those are the main keys and guidelines in the life of Indonesian people to be able to set a good and right example for all people, and also can be used as a way to deliver themselves towards a bright and desirable future. By prioritizing Islamic values, it will all be well planned.

## REFERENCE

Idrus Hariri, A., & Mulyani, A. (2016). Penerapan Pembelajaran Berbasis Sains Budaya Lokal Ngaseup Pada Konsep Sistem Reproduksi Manusia Untuk Meningkatkan Keterampilan Berpikir Kritis Siswa Kelas Xi Sman 1 Maja. *Jurnal Sains Dan Pendidikan Sains Scientiae Educatia*, *5*(1), 1–14. Retrieved from www.syekhnurjati.ac.di/jurnal/index.php/sceducatia

Mubah, A. S. (2011). Strategi Meningkatkan Daya Tahan Budaya Lokal dalam Menghadapi Arus Globalisasi. *Jurnal Unair*, *24*(4), 302–308. https://doi.org/10.1159/000322138

Majdi, A. L. (2019). *Ilmu pengetahuan (sains): dialektika paradigmatis barat dan islam*. (January).

Wahidin, unang; Ahmad, S. (2018). Jurnal Edukasi Islami Jurnal Pendidikan Islam Vol . 07 / No .1 , Teori-Teori Pendidikan … Teori-Teori Pendidikan …. *Jurnal Pendidikan Islam*, *07*(1), 47–66. https://doi.org/10.30868/EI.V7

Raehang. (2014). Pembelajaran Aktif Sebagai Induk Pembelajaran Kooperatif. *Jurnal Al-Ta'dib*, *6*(1), 149–167. Retrieved from ejournal.iainkendari.ac.id/al-tadib/article/view/249/239

Budi Setyaningrum, N. D. (2018). Budaya Lokal Di Era Global. *Ekspresi Seni*, *20*(2), 102. https://doi.org/10.26887/ekse.v20i2.392

Fakhrurrazi, F. (2018). Hakikat Pembelajaran Yang Efektif. *At-Tafkir*, *11*(1), 85. https://doi.org/10.32505/at.v11i1.529

Nurkholis. (2013). PENDIDIKAN DALAM UPAYA MEMAJUKAN TEKNOLOGI Oleh: Nurkholis Doktor Ilmu Pendidikan, Alumnus Universitas Negeri Jakarta Dosen Luar Biasa Jurusan Tarbiyah STAIN Purwokerto. *Jurnal Kependidikan*, *1*(1), 24–44.

Pane, A., & Darwis Dasopang, M. (2017). Belajar Dan Pembelajaran. *FITRAH: Jurnal Kajian Ilmu-Ilmu Keislaman*, *3*(2), 333. https://doi.org/10.24952/fitrah.v3i2.945

Yanuar Bagas Arwansyah, Sarwiji Suwandi, S. T. W. (2016). Revitalisasi Peran Budaya Lokal dalam Materi Pembelajaran Bahasa Indonesia bagi Penutur Asing (BIPA). *Makalah*, (1), 915–920.

Rahayu, A. (2014). Volume 02 nomor 01 maret 2014. *Jurnal Pendidikan Sains Universitas Muhammadiyah Semarang*, *02*(01), 6–13.

Suastra, I. W. (1999). Model Pembelajaran Sains Berbasis Budaya Lokal. *Jurnal Pendidikan Dan Pembelajaran*, *43*(2), 8–16. https://doi.org/10.1063/1.1635972

Maknun, J. (2017). Konsep Sains dan Teknologi pada Masyarakat Tradisional di Provinsi Jawa Barat, Indonesia. *Konsep Sains Dan Teknologi Pada Masyarakat Tradisional Di Provinsi Jawa Barat, Indonesia*, *2*(2), 127–142. https://doi.org/10.17509/mimbardik.v2i2.8623

Prayogi, R., & Danial, E. (2016). Pergeseran Nilai-Nilai Budaya Pada Suku Bonai Sebagai Civic Culture Di Kecamatan Bonai Darussalam Kabupaten Rokan Hulu Provinsi Riau. *Humanika*, *23*(1), 61. https://doi.org/10.14710/humanika.23.1.61-79

Zainal, A. and. (2008). Konsep Manajemen Kelas dan Implikasinya dalam Pembelajaran. *Jurnal Kependidikan*, *2*(2), 30–46.

Yunus, R. (2016). Transformasi Nilai-Nilai Budaya Lokal Sebagai Upaya Pembangunan Karakter Bangsa. *Jurnal Penelitian Pendidikan*, *13*(1).

Musanna, A. (2017). INDIGENISASI PENDIDIKAN: Rasionalitas Revitalisasi Praksis Pendidikan Ki Hadjar Dewantara INDIGENIZING EDUCATION: Rationalization toward Revitalization of Ki Hadjar Dewantara Educational Praxis. *Pendidikan Dan Kebudayaan*, *2*(1), 117–133. Retrieved from http://jurnaldikbud.kemdikbud.go.id/index.php/jpnk/article/view/529

Ratnawati, E., Rahayu, S., & Prayitno. (2010). PEMAHAMAN HAKIKAT SAINS (NOS) MAHASISWA TAHUN KETIGA PROGRAM STUDI PENDIDIKAN KIMIA

UNIVERSITAS NEGERI MALANG Eris. *Universitas Negeri Malang*, (2006), 1–15.

Jayana, T. A. (2018). Relasi Sains, Budaya, dan Agama Upaya Pendekatan Paradigma Yang Menyatukan. *Al-MAIYYAH: Media Transformasi Gender Dalam Paradigma Sosial Keagamaan*, *11*(1), 153–170. https://doi.org/10.35905/almaiyyah.v11i1.550

Pieter, J. (2016). Pembelajaran Ipa Berbasis Kearifan Lokal Sebagai Solusi Pengajaran Ipa Di Daerah Pedalaman Provinsi Papua. *Prosiding Seminar Nasional Pendidikan UNCEN Tahun 2016*, (March 2016), 44–54. https://doi.org/10.5281/zenodo.840857

Rerung, N., Sinon, I. L. S., & Widyaningsih, S. W. (2017). Penerapan Model Pembelajaran Problem Based Learning ( PBL ) untuk meningkatkan Hasil Belajar. *Jurnal Ilmiah Pendidikan Fisika Al-BiruNi*, *06*(April), 47–55. https://doi.org/10.24042/jipf

Hidayatullah, S. (2019). Agama dan Sains: Sebuah Kajian Tentang Relasi dan Metodologi. *Agama Dan Sains: Sebuah Kajian Tentang Relasi Dan Metodologi*, *29*(1), 102–133. https://doi.org/10.22146/jf.30246

Ni Putu Marheni, I. N. S. (2014). *87 PEMBELAJARAN INKUIRI TERBIMBING BERBASIS BUDAYA LOKAL PADA PEMBELAJARAN SAINS KIMIA SMP Ni Putu Marheni, I Nyoman Suardana*. *8*, 87–100.

Wahidmurni. (2017). Pemaparan Metode Penelitian Kuantitatif. *مجلة اسيوط للدراسات البيئة العدد الحا*(3), 43. https://doi.org/10.1017/CBO9781107415324.004

Prihatsanti, U., Suryanto, S., & Hendriani, W. (2018). Menggunakan Studi Kasus sebagai Metode Ilmiah dalam Psikologi. *Buletin Psikologi*, *26*(2), 126. https://doi.org/10.22146/buletinpsikologi.38895

Irkhamiyati. (2017). Evaluasi Persiapan Perpustakaan Stikes Aisyiyah Yogyakarta. *Berkala Ilmu Perpustakaan Dan Informasi*, *13*(1), 37–46.

Rijali, A. (2019). Analisis Data Kualitatif. *Alhadharah: Jurnal Ilmu Dakwah*, *17*(33), 81. https://doi.org/10.18592/alhadharah.v17i33.2374

Hakim, L. N. (2013). Ulasan Metodologi Kualitatif: Wawancara Terhadap Elit. *Aspirasi: Jurnal Masalah-Masalah Sosial*, *4*(2), 165–172. Retrieved from https://jurnal.dpr.go.id/index.php/aspirasi/article/view/501

Rosaliza, M. (2015). Wawancara, Sebuah Interaksi Komunikasi Dalam Penelitian Kualitatif. *Jurnal Ilmu Budaya*, Vol. 11, pp. 71–79. https://doi.org/10.31849/jib.v11i2.1099